

# AMERICAN NURSERYMAN

*The Nurseryman's Forte: To Make America More Beautiful and Fruitful*

MARCH 15, 1953



*Betula Lenta*

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# AMERICAN NURSERYMAN

[Registered U. S. Patent Office]

*The Nurseryman's Forte: To Make America More Beautiful and Fruitful*

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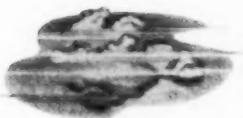
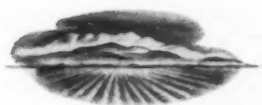
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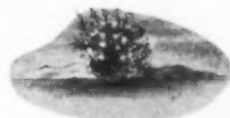
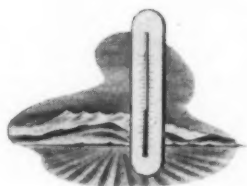
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# AMERICAN NURSERYMAN

F. R. KILNER  
*Editor and Publisher*

KENNETH A. BRENT  
*Managing Editor*

## Editorial

### PLANT HOMES

From reading the reports of state meetings in the past few issues of this magazine, one gathers that the program of "Plant America," initiated by the national association on a broad scale, is being furthered in a variety of ways by state organizations.

Some such associations have allied themselves with other groups and bodies in their states which are engaged in a general program of conservation—forests, wildlife, soil, etc. Others have undertaken projects for the planting of public buildings and grounds that before were barren and unbeautiful. In other ways some of the state nurserymen's associations have shown themselves patriotic, civic-minded and philanthropic.

All such duties should be fulfilled by nurserymen as good citizens. But there was—and is—a phase of "Plant America" which is more definitely the mission of nurserymen, and that is the planting of homes "to make America more beautiful." That mission is an important part of the national project and is even more important at the state and local level, where words are translated into action. In a previous national program the slogan was, "It's not a home till it's planted," a slogan still used by some nurserymen in their catalogs and on their stationery in order to impress the public with the importance of gardening in home building.

While the volume of business is enough to satisfy nurserymen, as at present, the close application of the "Plant America" program may not arouse much interest, but, on the other hand, if the opportunity is neglected or misdirected now, it may be lost ere it can be used when needed.

Nurserymen have always been for conservation—some of them quite actively—and it is proper that their organizations exercise their influence for the general horticultural and agricultural welfare of the country. They are likewise civic-minded and philanthropic in their communities;

the grounds of many a public building were planted by nurserymen in former days as a gift to the community purely and simply.

So if they indulge in activities that are more directly an urge to the public to plant home grounds, new and old, they certainly can do so in the confidence that the more homes are well-planted, the more the community and the nation will become beautiful and fruitful.

### GARDEN ADVERTISING

The problem of securing removal of misleading advertising of garden materials from newspapers and other periodicals is not solved by the adoption of plant standards by nurserymen's associations and their presentation to advertisers' and publishers' associations, though such measures are essential and important to further action. Beyond this general groundwork, there is much other labor yet to be done.

Attention of individual newspapers and magazines must be brought to the advertisements con-

reputation, which every advertising manager sets at the top of his list of prospects, do not patronize the garden pages filled with bargain offers of inaccurately described plants. They do not wish to be put in the same class.

Maybe some advertising managers will need a little horticultural education so that they will know what the standards mean. Many of them, no doubt, are not aware wherein lies their error.

Patience and time may be necessary for that purpose, but the objective is worth whatever it costs of both. Constant attention to the problem is needed for its solution, and the adoption and publication of standards is but the preliminary step.

### BEDDING PLANTS

In extending their stock of merchandise to include most of the home gardeners' spring needs, nurserymen operating retail sales grounds, garden shops or cash-and-carry stores have found annual bedding plants, flowering and vegetable, to be particularly attractive.

Since the war, several million small homes have been constructed, the owners of which are trying to improve their grounds at moderate cost. Those homeowners, whose purchases of trees or shrubs are extremely limited, are easily induced to invest almost as much annually, if not more, in low-cost annuals that give an immediate show.

This market is open not only to the nurseryman who does a retail cash trade, but to others in the field, as well. Of course, it is easiest to have the customers select and carry away the small plants, especially if the growers supplying the bedding plants package them in the small trays or cartons that make handling easy. Other nurserymen can handle bedding plants as they handle bulbs in autumn, by mailing a descriptive circular and order form to homeowners in their areas, delivering orders of a requisite dollar value.

For the nurseryman seeking to expand his retail sales, here is a prominent and increasingly sought type of merchandise.

DR. GEORGE MOORE has resigned as director of the Missouri Botanical Garden, St. Louis, Mo.



sidered by the trade to be misleading or untrue. And probably such action will have to be repeated, for a publisher is not likely to relinquish a lucrative advertising account on the receipt of one complaint based on the action of an association scarcely known to him.

But when repeated statements of the facts are set forth, accompanied by copies of the nursery associations' standards, no reasonable advertising manager or publisher is going to ignore the matter. No one knows better than they that bad advertising, like bad money, drives out good. The horticultural advertisers of





At luncheon during the 16th annual meeting of the Georgia State Nurserymen's Association. Seated, left to right, Walter Brown, University of Georgia agricultural extension service; John B. Wight, Cairo, Ga., former president of the American Association of Nurserymen; L. E. Young, Atlanta,

president of the Georgia State Nurserymen's Association. Standing, left to right, Dr. F. E. Johnstone, chairman, division of horticulture, University of Georgia; Dr. Broadus Browne, resident director, college experiment station, University of Georgia. Mr. Wight was featured speaker at the luncheon.

## Georgians Hold Eventful Course

*By F. E. Johnstone, Jr.*

Georgia nurserymen assembled at Athens February 15 and 16 for the 16th annual convention of the Georgia State Nurserymen's Association and the annual University of Georgia short course for nurserymen.

At the business meeting of the Georgia State Nurserymen's Association, held after the short course, Erik Johnson, of Atlanta, was elected president for the coming year. W. H. Wallace and John Symmes, also of Atlanta, were elected vice-president and secretary-treasurer, respectively. L. E. Young, of Atlanta, immediate past president, and Edwin Kellogg, of Douglas, were elected directors.

Highlight of the convention and short course was a luncheon talk on "Public Relations for the Nurseryman" by John B. Wight, past president of the American Association of Nurserymen and wholesale nurseryman from Cairo, Ga. In his talk, Mr. Wight stressed sound business ethics, high standards of operation and sincere desire to serve the public as primary requisites of good public relations. He pointed out that satisfactory relations cannot be built

around shoddy nursery stock. According to Mr. Wight, a public relations program will pay off only when one's "house is in order." Furthermore, he pointed out that good will cannot be written on the books overnight and cannot be put there and forgotten for a few years.

Mr. Wight emphasized that good public relations must start at home and that the attitude of employees affects public relations in the community. He suggested weekly meetings of employer and employees to talk over the services that the nursery is giving. Such meetings would be helpful in starting good public relations. Among services contributing to good public relations, Mr. Wight mentioned judging flower shows and giving talks on landscaping and allied subjects. He said that working with church groups and civic associations in whatever capacity possible and taking part in other community activities contribute to salutary relations. "Do good and tell the public about it—but first of all, do good," he advised.

After community public relations

are established, Mr. Wight continued, the next step is to serve your trade association ably. "You are hurting yourself, you are hurting your business," he said, "if you take a job for your trade association and are not willing to spend the time, thought and energy required to put the job over." Mr. Wight stressed that the trade associations are excellent vehicles for focusing attention on the industry so that the public recognizes its true importance to the community and to the nation. "It is my firm belief that the trade promotion program of the American Association of Nurserymen furnishes such a vehicle, working through state associations, regional associations and even the individual nurseryman who supports wholeheartedly the "Plant America" program," said Mr. Wight. "It is my hope," he continued, "that an inspired leadership in this association will not be satisfied with lip service to the "Plant America" idea, but will wholeheartedly support the program which, I assure you, will pay dividends many

[Continued on page 62]



# Brownell Heads Rhode Island Group

By Arthur S. Lewis

A large and enthusiastic group of nurserymen attended the 34th annual winter meeting of the Rhode Island Nurserymen's Association, held at the Johnson's Hummocks grill, Providence, R. I., on February 24. Many of the members had brought guests to the meeting and a number of nurserymen from Connecticut and Massachusetts were observed in the group.

The association elected officers for the next term at this meeting and Jack C. Brownell, Rhode Island Nurseries, Newport, was chosen as the new president. Edward Pagliarini, Warwick Nurseries, Cranston, is the new vice-president; Keeran J. Murphy, East Providence Nurseries, East Providence, was re-elected treasurer, and Anthony Williams, Forest Hills Nurseries, Inc., Cranston, was re-elected secretary.

Case Hoogendoorn, Hoogendoorn Nurseries, Newport; George Howarth, Howarth's Florists & Nursery, Providence, and Alfred L. Angel, Newport, were elected to the executive committee.

President Alfred Angel called the meeting to order promptly at 10 a. m. and asked for reports by the past year's officers and committee chairmen.

## Committee Reports

Secretary Anthony Williams presented an interesting account of the association's many activities during the past year. K. J. Murphy, the group's treasurer, reported that the finances of the organization were in good condition and that the cash balance was steadily increasing. The report of the membership committee, read by the chairman, Robert Kempenaar, informed the nurserymen that 16 candidates for membership were ready for consideration. These candidates were considered and accepted into the association



Leroy E. Thompson, left, of the 4-H committee of the Rhode Island Nurserymen's Association, presents a Leroy Thompson trophy for landscape beautification to Lorenzo F. Kinney, state 4-H Club leader, who accepts on behalf of Lloyd Essex, of Warwick, R. I., one of the two winners of this trophy. The newly elected officers of the association look on: Left to right, K. J. Murphy, treasurer; Jack C. Brownell, president; Edward Pagliarini, vice-president, and Anthony Williams, secretary.

later in the meeting. Arthur S. Lewis told of the work done by the publicity committee, of which he is chairman, to obtain publicity by radio and television.

George Howarth, exhibition committee chairman, reported on the spring flower show given at Providence, March 6 to 9, 1952, as part of the farm and home show. The feature attraction of this show, Mr. Howarth said, was the exhibit sponsored by the Rhode Island Nurserymen's Association and the Rhode Island Florists' Association on 7,500 square feet of floor space. Persons who had participated in the erection of the display and who had been present during the 4-day show were of the opinion that it was a definite improvement over the previous year, he continued.

Important contributing factors to the success of the show were the donation by the Premier Peat Moss Corp., the idea of using one greenhouse for forcing all the plant material and the labor contributed by students of the University of Rhode Island, he asserted.

Mr. Howarth said that, because of insufficient preparation of some of the material, not all the floor space was used as had been planned and the shortage of turf covering for the floor had been noticeable. The committee's recommendations were that efforts should be made to feature the

flower show again, providing that steps be taken to secure more funds and that suitable storage space be found for the properties accumulated for the show.

## Plans for State Parks

The principal speaker on the program was William H. Cotter, Jr., administrator of the Rhode Island division of parks and recreation areas. He began by informing the nurserymen of the state's plans to redecorate and relandscape all of Rhode Island's 30 parks and 50 roadside areas, which include the beach areas. The development program will start this spring and all nurserymen in the state will be asked to bid on the projects.

Scarborough state beach is to be landscaped again, the speaker continued, and Lincoln Woods still has 80 acres which must be cleaned up in preparation for landscaping. Historical areas will be included in the program; work must be done especially on the site of the Great Swamp Fight. Permanent displays showing good foundation plantings and other phases of the nurseryman's trade will be maintained in Goddard state park.

Funds for the development have been allotted by the governor, partly from a deficiency appropriation, amounting to \$465,000 for the 1953

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## "Back to School" for Pennsylvania Nurserymen

# Extensive Program Offered at Course

By R. P. Meahl

The eighth annual Pennsylvania nurserymen's conference, sponsored by the department of horticulture, Pennsylvania State College, was held February 17 to 19 at State College, Pa. Dr. Russell E. Larson, head, department of horticulture, extended words of welcome and invited all to look over the facilities of the department and the college so that they could better understand the possibilities and limitations of work done for their industry.

### New and Renewed Lawns

Albert E. Cooper, extension professor of agronomy, spoke on "New and Renewed Lawns." He said the soil pH should be at least 6.5 for good grass; however, one should find out by soil tests just what the acidity is before applying lime. Lime does not need to be applied at set intervals but only when needed.

The use of weed killers was recommended and these can be combined with fertilizers so as to save time in application. If the dry form of 2,4-D is used, one ounce for each 1,000 square feet is recommended. This material should first be mixed

thoroughly with a small amount of fertilizer and then the mixture mixed with the entire amount of fertilizer to be used. Before applying, the fertilizer spreader should be checked and calibrated so that the exact amount can be used. The rate of flow can be determined by running the spreader over a large panel of paper, collecting and then weighing the material spread.

Grass must be dry when applying a 2,4-D and fertilizer mixture or serious burning is likely. Even a light dew can cause injury. However, the soil should be moist or the reaction will be slow. It may even be necessary to water the area thoroughly a day or two prior to the application of the mixture. When fertilizer alone is used washing in with water can be done, but with a weed-killing chemical watering will lessen the effect. September applications were recommended, especially for broad-leaved weeds, since spring applications often open up spots in the turf which are not filled by permanent grass in time to prevent development of crab grass.

Liquid forms of 2,4-D can be

used and these give quicker results, but one must be careful not to use the ester forms. Only low volatile ester forms, or preferably amine forms, should be used.

### Controlling Crab Grass

Potassium cyanate does a good job in controlling crab grass if used at the right time, which is when the seed heads have formed. It is poisonous but safe to use since the poisonous effect does not last long. The rate recommended is three ounces of 90 to 100 per cent active potassium cyanate to three gallons of water for 1,000 square feet of area. It is hard on fescue turf but bluegrass is reasonably resistant. The directions should be followed exactly. In applying any type of liquid weed killer, low pressure and low volume is desired. High pressure is dangerous in that control of drift is difficult. After application, the grass should be mowed closely and in five days treated and mowed again. The clippings should be removed and destroyed.

In regular mowing, the knives

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## PLANTS FOR FOREGROUND PLANTING

- |  |   |
|--|---|
| Abelia grandiflora—Glossy abelia                         | Hydrangea quercifolia—Oakleaf hydrangea                 |
| Aronia melanocarpa—Black chokeberry                      | Ilex crenata convexa—Japanese convexleaf holly          |
| Azalea in variety  | Ilex crenata Green Island—Green Island Japanese holly   |
| Berberis julianae—Wintergreen barberry                   | Ilex crenata stokesi—Stoke's Japanese holly             |
| Berberis mentorensis—Mentor barberry                     | Juniperus chinensis sargentii—Sargent juniper           |
| Berberis thunbergii—Japanese barberry                    | Juniperus horizontalis plumosa—Andorra juniper          |
| Berberis triacanthophora—Three-spine barberry            | Leucothoe catesbaei—Drooping leucothoe                  |
| Berberis verruculosa—Warty barberry                      | Ligustrum obtusifolium regelianum—Regel border privet   |
| Buxus microphylla koreana—Korean littleleaf box          | Ligustrum vulgare nanum—Lodense privet                  |
| Buxus sempervirens—Common box                            | Mahonia aquifolium—Oregon hollygrape                    |
| Buxus sempervirens suffruticosa—True edging box          | Pachistima canbyi—Canby pachistima                      |
| Chaenomeles japonica—Japanese flowering quince           | Pieris floribunda—Mountain pieris                       |
| Chaenomeles lagenaria—Common flowering quince            | Pieris japonica—Japanese pieris                         |
| Comptonia peregrina—Sweet fern                           | Rhododendron carolinianum—Carolina rhododendron         |
| Cotoneaster dammeri—Bearberry cotoneaster                | Rhododendron catawbiense—Catawba rhododendron           |
| Cotoneaster divaricata—Spreading cotoneaster             | Spiraea bumalda Anthony Waterer—Anthony Waterer spiraea |
| Cotoneaster horizontalis—Rock cotoneaster                | Symphoricarpos chenaultii—Chenault coralberry           |
| Daphne cneorum—Rose daphne                               | Taxus baccata repanda—Spreading English yew             |
| Daphne mezereum—February daphne                          | Taxus cuspidata densa—Japanese cushion yew              |
| Deutzia gracilis—Slender deutzia                         | Taxus cuspidata nana—Dwarf Japanese yew                 |
| Elsholtzia stauntoni—Staunton elsholtzia                 | Viburnum burkwoodii—Burkwood viburnum                   |
| Euonymus alatus compactus—Dwarf winged euonymus          | Viburnum carlesii—Koreanspice viburnum                  |
| Euonymus fortunei vegetus—Bigleaf wintercreeper euonymus | Viburnum cassinoides—Withered viburnum                  |
| Euonymus nanus—Dwarf euonymus                            | Viburnum tomentosum—Doublefile viburnum                 |
| Fothergilla gardenii—Dwarf fothergilla                   | Xanthorhiza simplicissima—Yellowroot                    |

List of Plants for Foreground Planting by Prof. R. P. Meahl. See Accompanying Article.





A moment of relaxation during the meeting of arborists at Cornell University. Left to right, Dr. C. E. F. Guterman, director of research at the Cornell college of agriculture; E. Rumsey, Montour Falls, N. Y., program chairman of the meeting; Judge Edward T. Simoneau, Marlborough, Mass., and Kenneth Painter, Syracuse, N. Y., the new president of the New York State Arborists' Association.

## New York Arborists Meet

By A. M. S. Pridham

The second annual meeting of the New York State Arborists' Association was held at Cornell University on February 19. The meeting elected Kenneth C. Painter, Bartlett Tree Co., Syracuse, president; Francis U. Larmore, United Tree Service, Inc., Schenectady, vice-president, and Prof. John Naegele, Cornell University, secretary-treasurer.

Reports were read at the meeting by Mr. Larmore on the activities of the legislative committee. The committee was charged with the responsibility of promoting a single Arbor day for the state and of establishing a state tree. Following the report of the secretary-treasurer's office, six prospective members were voted upon and elected to membership in the association. Ernest Rumsey, Rumsey Tree Service, Montour Falls, then made a report for the program committee.

Judge Edward T. Simoneau, Marlborough, Mass., addressed the arborists and guests on "Tree Laws," following a dinner and meeting at the Statler inn. The friendly discussion, liberally illustrated with examples from specific cases, proved to be illuminating, interesting and thought-provoking. Discussion of each topic was followed by a question period. Judge Simoneau's great, firsthand knowledge of town problems and in-

terest in trees placed everyone at ease, making the discussion of real value to all who heard it.

The meeting of the New York State Arborists' Association was held as a primary part of the conference on the care of shade trees for 1953. This is the third meeting of this group at Cornell University in the past three years. Members of the departments of entomology, plant pathology and floriculture of the university participated in the program. Prof. James Brann, of the department of entomology, spoke on the use of spraying techniques to achieve better results. George Swanson, of the Cornell department of buildings and grounds, discussed his studies of time and cost in maintenance jobs.

### Identification Quiz

An identification quiz, in which the audience participated, covered plants, insect pests, plant diseases and maintenance problems. Lantern slides, supplemented by explanation and comments, served as illustrative problems. The arborists jotted down answers and as the slides were run a second time the correct identification answer was given and comments were received from the audience. This often led to a helpful exchange of experiences, and the

program was considered particularly enlightening by all.

On February 20, the conference was favored with an illustrated talk by Wilbur Wright, director of the Rochester city parks and chairman of the horticultural committee, American Institute of Park Executives. Mr. Wright's pictures and figures provided good arguments for planting trees of upright growth on modern city streets. Mr. Wright emphasized the need to mechanize maintenance jobs, both to save time and to use labor efficiently. The speaker stressed the desirability of selecting capable employees and training them so that they have a clear understanding of the job they are to do and know what is expected of them. Tree trimmers, particularly, should receive thorough training. This is important for their own safety and that of the public. Business-like operation reduces traffic delays and creates public confidence. This is particularly true of street tree trimming where good public relations are especially important. Mr. Wright stated that with the institution of an efficient record system, all tree work requested by property owners is recorded and scheduled. Requests are met on schedule and the jobs are completed promptly and efficiently under the supervision of well-trained foremen.

The conference was attended by arborists from the Buffalo, Rochester, Syracuse, Albany, Poughkeepsie and Brooklyn areas as well as from Connecticut and New Jersey.

A monthly news-letter will be issued during 1953 by the New York State Arborists' Association.

### POSTAL RAISE POSTPONED

Postmaster General Summerfield has issued an order postponing indefinitely the effective date of the surcharge of 20 cents per parcel on out-of-sack packages of parcel-post mail. Former Postmaster General Donaldson had issued a directive to put this surcharge in effect on April 1, 1953. The American Association of Nurserymen, in cooperation with other national businessmen's organizations, had urged Postmaster General Summerfield reconsider.

If effective on April 1, as originally ordered, the mail-order nursery trade would have been subjected to an additional postage charge of 20 cents on an estimated minimum of 250,000 parcels that would not meet sack limits. The savings on this spring's business has been estimated by the A. A. N. to amount to \$50,000.



# Midwest Conference Covers Variety of Tree Problems

By Noel Wysong

The eighth annual meeting of the Midwestern chapter, National Shade Tree Conference, was held February 11 to 13, at the Cosmopolitan hotel, Denver, Colo. The warm, springlike weather which prevailed during the week of the meeting no doubt contributed to its success and to the enjoyment of those who were in attendance. The 219 registered members and 25 unregistered guests present at one or more of the sessions represented attendance from 15 states, Colorado leading with 151 and followed by Illinois with 17, Nebraska 13 and Missouri 12. Although tree and shrub problems more peculiar to the Rocky Mountain region than other sections of the country were emphasized in the program, it is interesting to note that the conference attracted attendance also from distant states; Massachu-

setts, Michigan, Ohio, California and Oregon were each represented by one or more delegates.

The Colorado Forestry and Horticulture Association lent support to the conference and was well-represented in the attendance. Other business or vocational classifications represented were tree service companies, city parks and forestry agencies, educational institutions, research agencies, nurseries and various similar organizations interested in furthering the care and propagation of shade trees and ornamental shrubs.

## Officers Elected

At the business meeting officers for the coming year were elected as follows: President, George W. Kelly, horticulturist of the Colorado Forestry and Horticulture Association and editor of "The Green Thumb,"



George W. Kelly

official publication of the association, Denver, Colo.; vice-president, L. R. Tehon, head of the section of applied botany and plant pathology, Illinois Natural History Survey, Urbana, Ill.; secretary-treasurer, Noel B. Wysong, chief forester, forest preserve district of Cook county, River Forest, Ill.

Elected to the board of governors of both the Midwestern chapter and the National Shade Tree Conference for a 2-year term were John W. Swingle, Swingle Tree Surgery Co., Denver, Colo.; J. C. Carter, plant pathologist, Illinois Natural History Survey, Urbana, Ill.; Vance I. Shield, Shield Shade Tree Specialists, Clayton, Mo., and Lloyd Beal, arborist, Omaha, Neb. Elected as alternates to the board of governors were Frank Hanbury, arborist, Peoria, Ill.; C. V. Schulhoff, Schulhoff Nurseries, Wheatridge, Colo.; Earl J. Sinnamon, arborist, Denver, Colo.; F. L. Dinsmore, Dinsmore Tree Service, St. Louis, Mo.; H. A. Morrison, arborist, Wilmette, Ill.; Carl E. Seliskar, plant pathologist, Colorado A. and M. College, Fort Collins, Colo., and Larry C. Wachtel, Wachtel Tree Science & Service Co., Wauwatosa, Wis.

Following a brief address of welcome by President Vance I. Shield, the educational program began with the presentation of a paper on "Trees in Relation to Home Planting," by M. Walter Pesman, landscape architect and author, Denver, Colo. Stating that all trees, like humans, have their own frailties and must be taken as they are with all their good and bad qualities, Mr. Pesman stressed the importance in home planting of choosing trees "of a kind that can be defended against criticism" and so located that they attain the maxi-

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INSECT SPECIES	HOSTS	CONTROL
Forest Tent Caterpillar.	Poplar and other deciduous species.	Any standard stomach poison.
Great Basin Tent Caterpillar.	Poplar, willow and aspen.	In forest areas DDT at the rate of 1 pound in 1 to 2 gallons of oil applied by plane.
Fruit Tree Leaf Roller.	Some fruits, soft maple, ash, elm.	Dormant oil sprays for eggs, some of the chlorinated hydrocarbon and phosphate materials for larvae.
Spruce Budworm.	Spruce, fir, pine, hemlock and other conifers.	DDT applied by plane, mist blower or hydraulic sprayer.
European Elm Scale.	Elm.	Miscible oils as dormant sprays; DDT against crawlers at hatching stage.
Oyster-Shell Scale.	Ash, willow, poplar, maple, elm, lilac.	Winter temperatures of -25 to -35 degrees Fahrenheit often kill the eggs; dormant oil sprays are effective; DDT and phosphate may be used against the crawlers.
Red Spider Mite.	Linden, maple, willow, elm, spruce, fir and other species.	Wettable sulphur or lime-sulphur.
Aphis, various species.	Nearly all trees, shrubs and other vegetation.	A delayed dormant oil spray; nicotine sulphate; Parathion.
Honey Locust Borer.	Honey locust.	Careful watering, fertilizing, proper pruning and use of DDT when adults are depositing eggs.
Bronze Birch Borer.	Birch.	

Chart of insect pests affecting midwest shade trees with suggested methods of control, by George M. List, entomologist, Colorado A. and M. College. See article.





# CHARLIE CHESTNUT

## A TRIUMPH IN BOOKKEEPING



"Look this over for any flaws, Chas.," Emil says, handing me his income tax blanks, "see if I missed anything." He goes over it with me every year on the afternoon of March 14th.

"You cant get away with this, Emil," I says. "You got to be totally blind in both eyes to claim a deduction for blindness."

"I dont see good out of my left eye," Emil says. "I figure Im half blind in one eye, so I should get 1/4 extra exemption."

"The revenue department has got other ideas on that," I says, "better not try anything there."

"Well, me and Emma is past 65, so Im taking out double on that," Emil says.

"I thought you said your wife wouldnt be 65 until next January. They are fussy about dates on that stuff. Lets see what else you got here," I says, as Emil leaned back and lit his corncob pipe, waiting for me to punch some holes in his figures.

"Whats this you got down for John Bushbottom, Emil, \$212?" I says, "you aint paid that bill yet."

"I aint mailed the check yet, because them soft maples was way under size, but I made the check out last December," Emil says, "its right there in the check book."

"Youre liable to get your tail in the gate on that," I says. "Heres that bill for \$60 for paint for your house. That aint deductible when its for where you live," I says.

"I used some of that paint on the office door, you know that, Chas.," Emil says, "I aint got a record of how much, so I put it all in expenses," Emil explained.

"How about this item for coal, Emil?" I says. "We didnt buy any coal for the greenhouse this winter, you must of added in what you got for the house by mistake."

"Here's the way I figure it," Emil says, "last winter when we was out of coal at the office, I brought over several buckets of coal from the house. I didnt weigh it, so I figured it run about \$85. Let that go."

"Travel expense," I read. "You cant put in that trip you and the Mrs. took to Missouri last summer,

that was a pleasure trip," I says.

"Since when is it any pleasure to visit at Emmas sisters," he says, "and furthermore, I stopped at the Ozark Nursery on the way, to see what they had in gooseberries. There aint no question on that, Chas."

"Anything else you see there, Chas?," he asks.

"Here's a item, convention expense, \$268. You better have that itemized. They may check you on that," I says.

"Rooms at the hotel was \$9 a day, railroad fare was \$85 and the rest was miscellaneous," Emil says, "make up a slip to pin on covering that," he says.

"Wait a minute now Emil," I says. "you drove with Jake from the F and M Nursery and it didnt cost you nothing for railroad fare. Furthermore you stayed at the YMCA at \$1.50 a day. You didnt spend over \$35 altogether," I says.

"The way I figure it," Emil says. "I was entitled to spend \$268, if I put in \$35 the revenue department will be suspicious, they wont think I went to the convention at all. I dont want them snooping into that. Let it stand. One of the members was telling me at the convention he always puts down \$725. He has a big bill for entertaining customers. You might add about \$35 to my account for that, Chas. I was stuck for one round of beer, there was quite a few of the members in on it," Emil says.

"Must of been at least a hundred of the members," I says.

"They charge about double of what you can get a beer at Steamboat Fultons Place here in Riverbend. I didnt mark it down but you can call it \$35," Emil says.

"Every year you get away with this item of electricity, Emil," I says. "thats a item that wouldnt stand looking into."

"How come now, Chas.," he says, "its on account of that back porch light."

"How does that figure in?" I says.

"Heres how I figure it, Chas.," he says. "Every night all winter I have to go over to the greenhouse to fix the boiler. Do I fumble my way off the back porch to find my way

down the path? No. I turn on the porch light. The porch light is on my home meter. How much does it cost me to use the porch light? I have no way of telling. The only sure way to figure it is to charge in the cost of all the electricity for the house and then I know Im covered. Next question, Chas.," Emil says.

"Thats one of your most sketchy explanations, Emil," I says, "but you have a point there so I'll let it go."

"Taxes," I says. "Now every year I tell you taxes on your house should be separate from the nursery and buildings. You cant charge in the taxes on the house. The revenue department is liable to call you on that," I says.

"Thats the way the tax assessor puts it in, its all in one bill. Hes on the side of the revenue department. So thats their business. Furthermore after 5 p. m. the house is my office, people coming here at all hours, so the way I figure it the house is just as much a part of the business as the corn crib. Im satisfied with that arrangement so why change it?" Emil says.

"O. K.," I says, "if you want it that way, only dont jump me some day for not bringing the matter up."

"Does that cover all the questions, Chas?" Emil says, "so far you aint hit no snags have you Chas?"

"I aint found anything you aint got some answer for, if thats what you mean," I says, "but we aint thru yet. Whats this business of depreciation \$800 you got here? On our second hand Chevy truck, you claim \$200 depreciation, you only paid \$250 for it 4 years ago," I says.

"Well," Emil says, "probably you cant see my point on this, but I figure the truck is as good as a new truck, so far as doing the work, only instead of buying a new truck, I save that expense. Instead of depreciating a new truck for \$500, I only depreciate \$200, in that way the revenue department save \$300. Say if the tax is 20 per cent, they make \$60. If they are smart, they will jump at a chance to make that extra tax."

"Thats too deep for me Emil," I says, "I would have to study that

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# Country Life Show on Long Island

By Robert C. Davidson

Gardens and gardening have occupied a key position for many years at the country life-open house program of the Long Island Agricultural and Technical Institute, Farmingdale, N. Y. The school's country life-open house program was held this year from February 19 to 21. For this event, the institute's school of horticulture featured a spring garden for the average Long Island backyard, some exhibits of lawn construction and maintenance, a demonstration of how to feed hungry tree roots, a number of flower arrangements, a display of fresh frozen fruits and a demonstration of vegetable gardening.

Planning for the spring garden began in October, 1952. The land-



Put yourself in the lounge chair and enjoy the spring garden, as featured at the recent country life program, at the Long Island Agricultural and Technical Institute, Farmingdale, N. Y. The garden was designed by senior students at the institute.

scape problem was given to senior students of landscape design. The winning plan, selected by the faculty, was designated for use in the February country life show.

Plant materials were selected from the institute nurseries and greenhouses. Dogwoods were dug early in December, and the balls frozen to insure a good dormant stage prior to forcing the bloom. On January 6 they were moved into the greenhouses. Four weeks later, one was moved to a cool house in order to

hold its bloom until February 16. The birch, placed in the greenhouse on December 15, was ready in time for the exhibit. As might be expected, the apple tree took but two weeks to come out; on February 3 it was moved to a cooler house for holding. Azaleas, together with potted daffodils, were moved into the greenhouse on January 12.

Lawn turf was dug in December, any later might have made cutting impossible. It was placed in a large, cool storage room where skylights permitted some light to reach it. On January 20, the turf was transferred to warmer greenhouses. Liquid fertilizer was applied twice until, by February 16, the lawn was ready.

The pool, measuring 4x6 feet, was made of three-quarter-inch boards lined with sheet metal. A circulating pump in the basement of the building was used to force the water through the fountain. Homosite, a board with a mortar-like gray coloring, was laid between the bricks to achieve a natural effect. The garden was surrounded by a split cedar sapling fence. A final touch was given by the stuffed birds, a part of the collection assembled by a former faculty member. Bluejays and robins, both regular visitors to Long Island gardens, were used.

The entire exhibit was fitted into a room measuring 26x36 feet. The garden itself covered an area of 750

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Exhibit showing a tree well, used to aid in aeration where grading has caused heavy fill to collect near the root system of a tree.





An Example of a Doorway Planting for a 1-story House.

## Tips for Better Landscapes

By Clarence E. Lewis

Long Island Agricultural and Technical Institute, Farmingdale, N. Y.

### PLANTING A DOORWAY

Let us examine a simple doorway of a 1-story house and plan the many possible ways of treating it.

The doorway is the most important part of the house, since it is not only the focal point for all those who view it as passers-by, but also for those who seek entrance. It is highly advantageous to the owners of the home to have a pleasing and inviting entrance since they are the entertainers of both viewers and guests.

We sometimes plan a doorway or front planting so that it is acceptable to our eyes. The owners must live with it; thus the planting should be made for their enjoyment as well as for the neighbors across the street.

The illustrated entrance has only one step. This, coupled with the 1-story type of house, suggests low plants. There is an additional consideration that should not be omitted, and that is that the door is recessed. Recessed doors generally invite the use of plants which have branches that are relatively close to the ground, either horizontal or mound-like types. Upright-branching forms such as clipped specimens of Hicks' or Hatfield yews are too isolated and fail to carry the attention to the shadowed doorway. Such plants for this doorway tend to stop you, rather than invite you in.

If formal specimens are to be used in a foundation planting then their place is on either side of the entrance. Many persons insist on their use, and, if this was the case with the doorway we are planning, then plants which are as squatty as possible should be used.

Of course, the plants which are used here also govern somewhat the selection of shrubs which will be planned for the other sections of the foundation planting, and vice versa. The size of the plants must always be kept in mind so that the plants are not out of scale with the doorway.

The yews which have been employed in the illustrated planting are a little stiff and could be replaced with the spreading English yew, *Taxus baccata repandens*. A more pleasing entrance would result. There is nothing critically wrong, but the spreading English yews, with their mound-like habits, suggest that the guest would be more welcome. The neighbor across the road would also find that the doorway planting was more pleasing to his eye as he looked at it over a period of years.

If the doorway were flush with the front of the home, upright-branching shrubs could be more easily used. Nevertheless, they should be in scale with the home and other plantings.

What other plant possibilities are there for this specific problem? Also,

what effect are they going to have on the doorway and the rest of the foundation and front lawn plantings? The house which is shown faces the west and is partly shaded by trees on the south and southwest side.

*Taxus baccata repandens* has branches that arch to the ground. Its mound-like form and dark green foliage recommended its use. With the plant having branches to the ground, the observer's attention not only reaches the doorway easily and quickly, but he is aware of the fact that the plants blend well with the other foundation plants and the lawn area around them.

### Two Barberries

Two barberries that withstand cutting, or that, even in their natural state, have a rounded head and branches growing usually to the ground, are *Berberis verruculosa*, warty barberry, and *Berberis triacanthophora*, threespine barberry. The warty barberry, which usually does not exceed a height of two and one-half to three feet for many years, is the smaller of the two. It has an informal rounded appearance that blends well with yews, small hollies, Kurume azaleas and many other good foundation plants. It may be restrained to a height of 18 inches without impairing the plant's appearance.

The threespine barberry grows to a greater height, but can be kept to about the same height and the same form though it will have greater density and a lighter green leaf.

A much-neglected deciduous shrub that deserves more popularity is *Deutzia gracilis*, slender deutzia, with its rounded top and branches to the ground. The abundance of white flowers from mid to late May does not detract from its desirability. Do not discard this possibility just because of its deciduous nature.

Three junipers worthy of complementing this doorway are *Juniperus chinensis sargentii*, Sargent's juniper; *Juniperus sabina tamariscifolia*, tamarix savin juniper, and *Juniperus procumbens*, Japgarden juniper. None, of course, should be used where sunlight is a problem. All three have a more or less spreading habit with a flat top and an irregular appearance, which is desirable for this particular entrance.

Sargent's juniper is probably the best known and adaptable to a wide variety of climates. Tamarix savin juniper is better suited to more northern regions. The Japgarden juniper is the least known of the

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## MULTIFLORA ROSES

The supply of this popular multipurpose plant is limited. We still have a fair supply of row-run conservation-grade seedlings, 3 mm. and up, 8 to 15 inches. Plants will be spring dug.

## ROSES

Despite heavy sales, we still have a balanced assortment of 2-year-old hardy roses in patented and nonpatented varieties. Excellent selection still possible in hybrid teas and climbers. We can make immediate shipment.

## SHRUBS

We have a wide variety of hardy, heavy-rooted, flowering shrubs including Cornus, Cydonia, Deutzia, Forsythia, Kolkwitzia, Lonicera, Philadelphus and Spiraea. This is all 2 and 3-year-old, cutback, transplanted stock. We can ship immediately.

## HEDGE PLANTS

If you need some husky, heavy Amur River North or California Privet, try Burr before you buy. Good stock still available, especially in 2 to 3-foot and 3 to 4-foot grades.

All signs point to heavy sales this spring. Don't be caught short without material to sell. Write, wire or phone now while stock is still in good supply.



**C. R. BURR & COMPANY, Inc.**  
**MANCHESTER, CONN.**

*"Growing Since '98"*





# Plant Notes Here and There

By C. W. Wood

I had the pleasant task recently of working out a planting schedule for a South Carolina client who was stressing winter flowers. While I made up the list, it occurred to me that readers of this column might like to look over part of the list; so a few of the plants will be mentioned at this time.

I did not know enough about the climate of his section to be sure of the hardiness of some plants that I wanted to mention; so in those cases it was recommended that he get in touch with his experiment station. It was under those conditions that *Acacia baileyana* was mentioned. Where hardy, I could think of nothing better than this shrub or small tree for a background plant. It has lovely, pale green, feathery leaves and sprays of golden balls early in the winter, perhaps commencing that phase in January or February in his climate. The plant is propagated from seeds or from cuttings of half-ripened wood in heat.

*Adonis amurensis* was stressed strongly, perhaps too much so, because I am fond of its intrepid nature, braving winter's coldest blasts and bursting greenish-yellow bubbles in one's face almost as soon as the ground thaws. Here we expect it to flower in March or early April; in South Carolina it would probably come in January or February at the latest. I suspect that *Adonis vernalis* would be even more welcome there because it would no doubt be more floriferous, owing to its branching stems, which grow to 15 inches in height (perhaps higher in the south), many from each thickened rootstock after it has attained much age and each bearing terminal golden-yellow buttercups of large size (two or more inches) in early spring or perhaps in late February or early March that far south.

Of course this man or anyone else planting for the earliest possible flowers would want plenty of windflowers. He would desire numbers of the tuberous-rooted kinds, most of which bloom early if handled properly. His own *Anemone caroliniana*, grown with 15-inch stems and from a large tuber and developing creamy or purplish windflowers in early spring, would be useful. But even more useful, I am sure, would be what gardeners usually call tuberous windflowers, including *A. coronaria* in its many forms, *A. fulgens* and *A.*

*hortensis*. I am told, though I do not know from experience, that these kinds live over and multiply in the south, but are somewhat shy of flowers and the flowers they do produce are late in coming, while, if they are dug and cured after flowering and planted back in late summer, they may be expected to flower any time that the weather is suitable from January 1 onward. They would then be a welcome addition to any garden. Here in the north we have to grow them in pots indoors or in a well-protected frame.

Perhaps I do not have to recommend *Aster grandiflorus*, that fine aster native to the country from Virginia to Florida. It would be, it seems to me, of inestimable value in the south, especially far enough south where it could be kept from hard frosts. It is of little value this

far north because of its late flowering season, but we have kept it going indoors, where it produced its large (to two inches across), deep violet flowers on 2-foot plants from late October through December. It must make a beautiful outdoor plant in the south, where it would enliven November and December with its 2-inch-wide, violet-colored daisies.

I have never seen *Coronilla glauca* except under glass, where it makes shapely little bushes which are smothered under a wealth of lovely yellow pea flowers at Christmas time. In the open in the south (a native of southern Europe, it should be hardy from the Carolinas southward), it should grow four or five feet tall, making a rounded bush which is clothed in pretty, glaucous, legume leaves and yellow flowers in winter.

If I were gardening in the south,

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Koki-no-iro. Violet-purple, golden throat.	2.40	20.00
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Comus. Orange-vermillion, garnet center. Dwarf.	2.10	18.00
Daily Sketch. Salmon-pink, red eye.	2.10	18.00
Eva Forrester. Giant florets of salmon-rose, lighter centers. (Also called Salmon Beauty).	2.10	18.00
Hauptmann Kohl. Large, brilliant dark carmine.	2.10	18.00
July Glow. Brilliant sunset-red.	2.10	18.00
Leo Schlageter. Clear, brilliant scarlet.	2.10	18.00
Mary Louise. Pure white, fragrant.	2.10	18.00
Pinkette. Soft delicate shade of pink.	2.10	18.00
R. P. Struthers. Rosy-carmine, red eye.	2.10	18.00
Royal Purple. Dark violet-blue, rose-violet eye.	2.10	18.00
Salmon Glow. Flame-pink, shaded salmon.	2.10	18.00
San Antonio. Plum-shaded carmine.	2.10	18.00
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Mrs. W. H. Wyman. Soft yellow, July-August.	1.90	16.00
Sovereign. Soft chrome-yellow.	1.40	12.00
Thunbergi. Pale yellow, evening bloom, sweet-scented, July and August, 36 ins.	1.40	12.00
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I would try to make much of the hardy cyclamens, knowing that they would surely help to make the winter more colorful. There are 20 or more kinds, mostly native to the Mediterranean regions and eastward, a few being hardy even as far north as the writer. Their flowering period could be made to cover much of the summer, fall and winter in areas as nearly frost-free as coastal South Carolina. It would be useless to use a lot of space on their description, because they are seldom listed in this country, but if I were gardening in the south I would search European lists for them.

If I were gardening almost anywhere in the United States, I would gather as many forms of *Daphne mezereum* as possible. In the north I would expect color from them (red-dish-purple in the type to pure white in the lovely alba variety) at the coming of the first warm days in late winter; in the south, it would not be too much to expect flowers, which are fragrant, from December till spring. And in the south it would be just a step from the *mezereum* to *D. odora*, the fragrant little white bush that is so popular in northern greenhouses as a winter bloomer.

I know so little about the heaths that I do not care to enter into a discussion of the plants. But I would certainly make it my business to investigate them thoroughly if I lived in a more equable climate and could give them a lime-free, well-drained soil that would not become too dry in summer.

The golden bells need no comment, I suppose, and perhaps the witch hazels do not either, but at least two winter-blooming kinds, *Hamamelis mollis* (about the best in the family), from western China, and our own southwestern *H. vernalis* deserve more attention than they have ever had from American gardeners.

I suppose that one could find a plant among the many species and varieties of hellebore that he would not care to have in the garden, but I have not yet done so. And I would not attempt to plant a winter garden without at least two kinds, the late fall and winter-blooming *Helleborus niger altifolius* and the Lenten rose, *H. orientalis*, in at least one of its better forms, such as variety *guttatus* and its hybrids.

If I were ever to move to a warmer climate, one of the deciding factors would be the opportunity of growing the loveliest of all winter-blooming (it should bloom from November onward in the more temperate parts

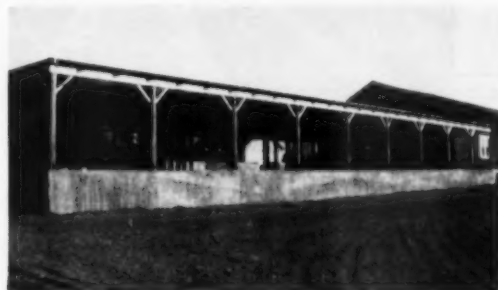


## SOLD OUT AND LOOKING FORWARD

Here are a few random views of our nurseries, showing improvements which will have a beneficial effect on our future planning.



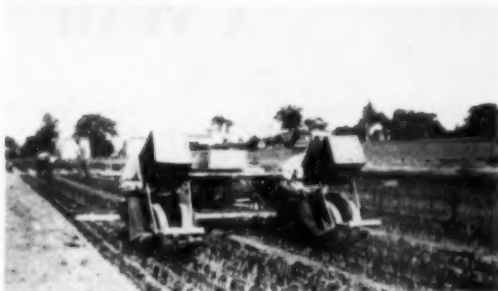
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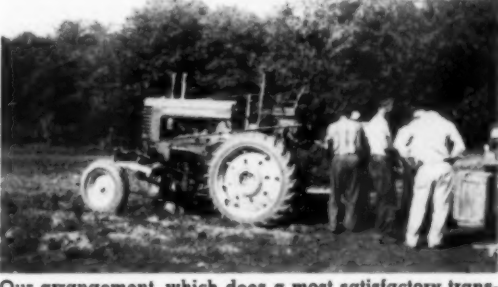
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Grown from seeds of our own collection. Parent trees exceptionally healthy, straight stems, holding good green color.			(From hand-picked seeds)		
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2-yr., S., 4 to 8 ins. . . .	7.00	35.00	2-yr., S., 3 to 6 ins. . . .	7.00	35.00
3-yr., S., 5 to 10 ins. . . .	9.00	45.00	3-yr., S., 5 to 10 ins. . . .	12.00	60.00
<b>AUSTRIAN PINE</b>			<b>NORWAY SPRUCE</b>		
2-yr., S., 3 to 7 ins. . . .	7.00	35.00	2-yr., S., 3 to 5 ins. . . .	4.00	20.00
3-yr., S., 8 to 16 ins. . . .	11.00	55.00	2-yr., S., 5 to 10 ins. . . .	7.00	35.00
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2-yr., S., 2 to 6 ins. . . .	4.00	20.00	<b>SERBIAN SPRUCE</b>		
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<b>MUGHO PINE</b>			3-yr., S., 7 to 12 ins. . . .	17.00	85.00
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3-yr., S., 6 to 12 ins. . . .	10.00	50.00	<b>CEDRUS ATLANTICA GLAUCOA</b>		
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3-yr., S., 3 to 6 ins. . . .	7.00	35.00	3-yr., S., 36 to 48 ins. . . .	8.00	40.00
<b>WHITE SPRUCE</b>			<b>NORWAY MAPLE</b>		
2-yr., S., 4 to 8 ins. . . .	6.00	30.00	1-yr., S., 5 to 9 ins. . . .	12.00	60.00
3-yr., S., 8 to 16 ins. . . .	10.00	50.00	2-yr., S., 10 to 24 ins. . . .	20.00	100.00
			<b>WHITE DOGWOOD</b>		
			1-yr., S., 5 to 10 ins. . . .	13.00	65.00
			<b>BOX ELDER (Acer Negundo)</b>		
			1-yr., S., 6 to 9 ins. . . .	3.00	15.00

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of the Carolinas and Florida) iris, *I. unguicularis* (*I. cretensis*, *I. stylosa*). Then I would expect to see its beautiful lilac-colored flowers from December onward. That would not be the only iris I could enjoy, either, for I could call on a host of bulbous kinds, all the way from the little *I. reticulata* to *I. heldreichi*.

I hesitate to go further in the inquiry because I know so little about the Carolina climate. For instance, some of the magnolias should be useful, but I cannot follow that phase through. One could go into the long list of small bulbs, including crocuses, bulbocodiums and galanthus, and add many a winter charmer. And in woody plants, prunus and rhododendron groups would yield some good material. If readers in the south who are familiar with its "flora hymnalis" care to send me additions to this list, I shall be glad to pass them along to inquirers.

### *Lallemantia Canescens*

When the Asiatic labiate that heads this note first flowered here in the early 1930's, I little thought that it would still be unknown 20 years afterward. Of course I did not know when it first flowered that it was a biennial, or else I might not have been so hopeful about its future. But I still think that it has, speaking in the language of moderns, what it takes to get along in this world—a presentable appearance. Included in its make-up are as lovely clothes (beautiful silvered foliage) as one could hope for and adornments of pretty, large (close to two inches long), blue flowers on stems which grow up to 15 inches in length for a long time in summer. It has, in addition, a fine temperament, if it is given a dry, sunny spot and after that wholesome neglect.

Unfortunately, however, it puts all its energy into one long blooming period, and many gardeners are unable to condone that behavior in any plant unless it is as indispensable as the foxglove and Canterbury bell. The gardener should not take its biennial nature too seriously, however, for it usually self-sows in sufficient numbers to maintain a yearly succession. If you have room in your schedule for a plant of that nature and have customers with a liking for them, you may find this labiate a profitable item.

### *Astrantia*

Many a plant has been damned by half praise, and others are condemned by association. *Astrantia* is an example of the latter, as is evident when writers remind us that



# Profits for Nurserymen with Turf Problems

Growers and sellers of nursery stock often have occasion to condition large turf areas. Frequently this presents a problem—both in application and cost—particularly when the soil is clay. Sodding is often impractical—so is the application of topsoil. Also, either of these methods can be more expensive than conditioning the soil with Krilium.

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"...As a matter of fact, in all our estimates for landscape work, where we have a clay soil, we are recommending to our clients that Krilium be used, and in many instances we have found it far more economical than replacing with topsoil."

The above direct quotation is so valuable to all nurserymen interested in landscaping that it is worth a second reading. And then—action! Because, time after time, Krilium has proved its economic value in all phases of landscaping and nursery operations where questions of sodding, topsoil or erosion are under consideration.

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*Euonymus Coloratus*  
3-yr., field

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*Thuja Occidentalis Pyramidalis*  
3-yr., field

Grown in field two and three years without shade.  
Note the heavy root systems to balance vigorous growth.

### Transplants—Grown in open field beds

	100 rate each		100 rate each
<i>Azalea Ghent</i> hrb., 1-yr., beds, X....	\$0.18	<i>Koeleruteria paniculata</i> (Golden-rain Tree), 1-yr., sdlg.....	\$0.06
3 to 6 ins., 2-yr., field beds, XX....	.25	4 to 8 ins., 2-yr., sdlg.....	.10
6 to 8 ins., 4-yr., heavy, XXX....	.45	6 to 12 ins., 3-yr., field transp.....	.15
<i>Azalea mollis</i> , 1-yr., X.....	.18	<i>Laburnum vulgare</i> (Golden Chain Tree), 6 to 10 ins., 2-yr.....	.10
4 to 8 ins., 2-yr., X.....	.25	<i>Larix europaea</i> , 6 to 12 ins., 2-yr.....	.10
8 to 12 ins., 3-yr., XX.....	.65	<i>Larix leptolepis</i> , 6 to 12 ins., 2-yr.....	.10
12 to 15 ins., 4-yr., XXX (budded)....	1.35	<i>Pachysandra terminalis</i> , 2-yr.....	.12
<i>Azalea schlippenbachii</i> , 1-yr. beds, X....	.22	<i>Picea excelsa</i> , 6 to 8 ins., 3-yr., X....	.10
4 to 6 ins., field beds, XX.....	.35	<i>Picea pungens glauca</i> , 3 to 5 ins., S, 2-yr.....	.10
<i>Buxus sempervirens welleri</i> , 1-yr., X, field.....	.25	4 to 8 ins., X, 3-yr.....	.18
4 to 8 ins., 2-yr., X, field.....	.45	<i>Pinus mugo</i> , 4 to 6 ins., 3-yr.....	.10
<i>Calycanthus floridus</i> , 12 to 15 ins., 2-yr.....	.10	6 to 8 ins., 4-yr., X.....	.15
18 to 24 ins., 3-yr.....	.15	<i>Pyracantha lalandi</i> (Fire Thorn), 8 to 12 ins., X, field, 2-yr.....	.30
<i>Chamaecyparis lawsoniana alumi</i> (blue), XX, 2-yr., 6 to 10 ins....	.25	<i>Rhododendron catawbiense</i> , 2-yr., beds, X.....	.25
10 to 15 ins., XX, 3-yr.....	.35	3-yr., field beds, XX.....	.35
<i>Chamaecyparis plumosa aurea</i> , 5 to 8 ins., 2-yr., X.....	.35	5 to 8 ins., 4-yr., XX.....	.35
8 to 12 ins., 3-yr., X.....	.45	<i>Rhus cotinus</i> (Smoke Tree), 4 to 8 ins., 2-yr., S.....	.06
<i>Cotoneaster horizontalis</i> , 6 to 12 ins., 2-yr., X.....	.35	<i>Taxodium distichum</i> (Bald Cypress), 10 to 15 ins., 2-yr., X.....	.18
<i>Euonymus carrierei</i> (hedge type), 4 to 8 ins., X, 1-yr.....	.18	5 to 8 ins., 4-yr., X.....	.35
8 to 10 ins., X, 2-yr.....	.25	<i>Thuja occidentalis</i> (American Arborvitae), 8 to 10 ins., 3-yr., X.....	.15
10 to 12 ins., 3-yr., XX.....	.35	10 to 12 ins., 3-yr., X.....	.25
<i>Euonymus coloratus</i> , 4 to 8 ins., X, 1-yr.....	.16	12 to 18 ins., 4-yr., XX.....	.35
8 to 12 ins., XX, 2-yr.....	.25	<i>Thuja occidentalis douglasii aurea</i> , 4 to 8 ins., X, 2-yr.....	.25
<i>Euonymus fortunei erecta</i> , 4 to 8 ins., 1-yr., X.....	.16	8 to 12 ins., X, 3-yr.....	.35
6 to 12 ins., 2-yr., X.....	.25	<i>Thuja occidentalis elegantissima lutea</i> (George Peabody Arborvitae), 6 to 8 ins., X, 3-yr.....	.32
<i>Euonymus vegetus</i> , 6 to 8 ins., X, 1-yr., bedded.....	.16	8 to 12 ins., X, 3-yr.....	.32
8 to 10 ins., X, 2-yr., field.....	.25	<i>Thuja occidentalis globosa</i> , 8 to 12 ins., 3-yr., X.....	.35
<i>Hex crenata convexa</i> , 5 to 8 ins. (sand).....	.20	<i>Thuja occidentalis pyramidalis</i> , 8 to 10 ins., X, 2-yr.....	.35
<i>Hex glabra</i> (Inkberry), 4 to 6 ins., 2-yr., X.....	.20	10 to 15 ins., X, 3-yr.....	.45
6 to 8 ins., 2-yr., X.....	.30	<i>Viburnum opulus</i> , 6 to 12 ins., 2-yr. (300 and up, 6e each).....	.08
8 to 12 ins., 3-yr., XX.....	.40	10 to 15 ins., 2-yr.....	.12
<i>Hex rotundifolia</i> , 6 to 10 ins., 2-yr., X.....	.35	15 to 20 ins., 3-yr., X.....	.18
10 to 15 ins., 3-yr., XX.....	.75	<i>Viburnum opulus nana</i> , 2-yr., field, X.....	.25
<i>Juniper</i> , Irish, 8 to 12 ins., X, 3-yr.....	.35		
12 to 15 ins., 3-yr., X.....	.45		
<i>Juniperus glauca hetzi</i> , 10 to 15 ins., X, 3-yr.....	.35		
12 to 18 ins., XX, 3-yr. (cutback)....	.55		
<i>Juniperus pfitzeriana</i> (Blue compact; Nelson variety), 4 to 8 ins., X, 2-yr.....	.30		
6 to 8 ins., X, 2-yr.....	.40		
<i>Juniperus scopulorum</i> , 6 to 10 ins., 2-yr., X.....	.15		

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the genus "belongs to the uncharming family of umbellifers." Actually, though, no astrantia that I know is unworthy of your attention.

This small group of umbellifers (about six in number, we are told), mostly confined to southern Europe and southern Asia, are among the showiest of the family. Even so, we find at least two which, because of their inconspicuous floral parts, would probably have little interest for the average gardener.

Probably the best known and also one of the best of the genus is *Astrantia major*, a 2-foot plant with rose-pink to reddish flowers in a cup-shaped involucre of the same color. It is the involucre that is the showy part of all astrantias that I know, the flowers, although numerous, being of little consequence. It, in common with a majority of the kinds, is best in a moist soil in shade, though it will do well on the average amount of moisture if it is shielded from the hot sun. Of about the same color as the foregoing is *A. helliborifolia*. The latter did well here in full sun and, as a consequence, supplements the other rather than competes with it. These are both from the Caucasus mountains and are hardy in northern Michigan. Another, *A. gracilis*, a 1-foot-tall plant with light rose flowers and involucre, was an easy doer here in full sun, provided it did not become too dry. It should be borne in mind that all astrantias want moisture to do their best, but just one that I have tried is really hard to grow. It, *A. minor*, comes from the Alps, I believe, and demands more care in my climate than its white flowers and white involucre merit, though it is said to be a lovely plant when well-grown. To reach such a happy ending, it seems necessary to give the plant an acid soil in a wet moraine or treatment approximating those conditions. They may be grown from seeds, which germinate slowly and erratically and perhaps not at all if the seeds are not fresh, or they may be divided in either fall or spring, preferably the latter in northern climates.

### Physaria

Answering a West Virginia reader who asked for a source of supply for seeds of *Physaria didymocarpa*: I regret that I am unable to give you a source at the moment. I have written two friends in the plains area and will let you know by mail if something definite develops. In the meantime I shall make a few remarks on the plant.

Although I am not personally fond of the crucifer family as a



## ONARGA NURSERY CO.

ONARGA, ILL.  
PHONE 104

## SURPLUS SHRUBS

	Per 10	Per 100
1740 Almond, Pink, 12 to 18 ins.	\$ 3.00	\$25.00
880 18 to 24 ins.	4.00	35.00
1330 2 to 3 ft.	4.50	40.00
Althaea, Bush (varieties below), 12 to 18 ins.	2.50	20.00
18 to 24 ins.	3.00	25.00
2 to 3 ft.	3.50	30.00
3 to 4 ft.	4.50	40.00
Althaea Ardens, 12 to 18 ins.	4.00	35.00
Althaea Boule de Feu, 18 to 24 ins. and 3 to 4 ft.	4.00	35.00
Althaea Jeanne d'Arc, 12 to 18 ins., 18 to 24 ins. and 2 to 3 ft.	4.00	35.00
Althaea Lady Stanley, 12 to 18 ins., 18 to 24 ins. and 2 to 3 ft.	4.00	35.00
Althaea Lucy, 12 to 18 ins., 2 to 3 ft.	4.00	35.00
Althaea Paeoniflora, 18 to 24 ins., 2 to 3 ft., 3 to 4 ft., 4 to 5 ft.	4.00	35.00
Althaea Purpurea Semi-Plena, 12 to 18 ins., 18 to 24 ins., 2 to 3 ft.	4.00	35.00
Althaea Rubis, 12 to 18 ins., 18 to 24 ins., 3 to 4 ft.	4.00	35.00
2300 Althaea Coelestis, 12 to 18 ins.	3.00	25.00
200 18 to 24 ins.	3.50	30.00
220 2 to 3 ft.	4.00	35.00
130 Aralia Pentaphylla, 2 to 3 ft.	5.00	45.00
600 Berberis Atropurpurea, 9 to 12 ins.	3.50	30.00
200 12 to 18 ins.	4.00	35.00
160 24 to 30 ins.	7.00	65.00
633 Berberis Thunbergi, 9 to 12 ins.	2.50	20.00
130 Buddleia Pink Charming, 2-yr., Med.	3.50	30.00
110 Buddleia Pink Charming, 2-yr., 1.	4.00	35.00
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400 18 to 24 ins.	3.50	30.00
350 2 to 3 ft.	4.00	35.00
145 Cercis Canadensis, 18 to 24 ins.	5.00	45.00
350 Cornus Alba Sibirica, 18 to 24 ins.	4.00	35.00
1530 3 to 4 ft.	5.00	45.00
360 4 to 5 ft.	5.50	50.00
390 Cornus Florida, 2 to 3 ft.	12.50	
300 Cornus Florida, 3 to 4 ft.	15.00	
110 Cornus Paniculata, 3 to 4 ft.	5.00	45.00
230 Cornus Stolonifera Lutea, 18 to 24 ins.	4.00	35.00
160 2 to 3 ft.	4.50	40.00
680 3 to 4 ft.	5.00	45.00
200 4 to 5 ft.	5.50	50.00
130 Cotoneaster Acutifolia, 12 to 18 ins.	4.50	40.00
595 2 to 3 ft.	5.50	50.00
200 3 to 4 ft.	6.50	60.00
115 4 to 5 ft.	7.50	70.00
270 Cotoneaster Divaricata, 2 to 3 ft.	6.50	60.00
290 Cotoneaster Divaricata, 3 to 4 ft.	7.50	70.00
1380 Cydonia Japonica, 12 to 18 ins.	3.50	30.00
120 18 to 24 ins.	4.00	35.00
170 2 to 3 ft.	5.00	45.00
1000 Deutzia Gracilis, 12 to 15 ins.	4.50	40.00
200 15 to 18 ins.	5.00	45.00
190 18 to 24 ins.	5.50	50.00
350 Deutzia Lemnol, 12 to 18 ins.	4.00	35.00
580 18 to 24 ins.	4.50	40.00
850 24 to 30 ins.	5.00	45.00
120 Deutzia Pride of Rochester, 18 to 24 ins.	4.00	35.00
460 2 to 3 ft.	4.50	40.00
330 3 to 4 ft.	5.50	50.00
140 Euonymus Europaeus, 18 to 24 ins.	4.00	35.00
Forsythia (varieties below), 12 to 18 ins.	3.00	25.00
18 to 24 ins.	3.50	30.00
2 to 3 ft.	4.50	40.00
3 to 4 ft.	5.00	45.00
Fortunei, 12 to 18 ins., 18 to 24 ins., 2 to 3 ft., 3 to 4 ft., 4 to 5 ft.	4.00	35.00
Intermediate, 12 to 18 ins., 18 to 24 ins., 2 to 3 ft., 3 to 4 ft., 4 to 5 ft.	4.00	35.00
Primulina, 12 to 18 ins., 18 to 24 ins., 2 to 3 ft., 3 to 4 ft.	4.00	35.00
Spectabilis, 18 to 24 ins., 2 to 3 ft.	4.00	35.00
Suspensa, 18 to 24 ins., 2 to 3 ft., 3 to 4 ft.	4.50	40.00
290 Honeysuckle, Bella Albida, 4 to 5 ft.	5.50	50.00
340 Honeysuckle, Bella Albida, 4 to 5 ft.	5.50	50.00
1070 Honeysuckle, Grandiflora Rosen, 2 to 3 ft.	5.00	45.00
1180 3 to 4 ft.	5.00	45.00
100 4 to 5 ft.	5.50	50.00
3490 Honeysuckle, Morrow, 2 to 3 ft.	4.50	40.00
1770 3 to 4 ft.	5.00	45.00
100 4 to 5 ft.	5.50	50.00
1270 Honeysuckle, Tatarian Red, 3 to 4 ft.	5.00	45.00
1540 Honeysuckle, Tatarian White, 2 to 3 ft.	4.50	40.00
3595 Honeysuckle, Zabel, 2 to 3 ft.	4.50	42.50
1730 3 to 4 ft.	5.00	47.50
1340 4 to 5 ft.	5.50	52.50
Hydrangea, G., 12 to 18 ins.	4.00	
350 Hydrangea A. G., 2 to 3 ft.	5.00	

	Per 10	Per 100
660 Hydrangea P. G., 9 to 15 ins.	\$2.00	
700 12 to 18 ins.	2.50	
150 18 to 24 ins.	3.00	
630 2 to 3 ft.	4.00	
770 3 to 4 ft.	5.50	
200 Kolkwitzia Amabilis, 12 to 18 ins.	4.00	
270 Kolkwitzia Amabilis, 18 to 24 ins.	4.50	
1580 Lilac, Persian, 12 to 18 ins.	3.50	\$32.50
1970 Lilac, Persian, 18 to 24 ins.	4.00	37.50
1150 Lilac, Vulgaris, Purple, 12 to 18 ins.	3.00	27.50
740 18 to 24 ins.	3.50	32.50
680 2 to 3 ft.	4.50	42.50
240 Lilac, French, Alphonse Lavallee, 12 to 18 ins.	5.00	
120 Lilac, French, Charles Joly, 12 to 18 ins.	5.00	
390 Philadelphus Coronarius, 18 to 24 ins.	3.00	27.50
140 Philadelphus Coronarius, 2 to 3 ft.	4.50	40.00
300 Philadelphus Pyramidalis, 18 to 24 ins.	3.50	
200 Philadelphus Pyramidalis, 8 to 4 ft.	5.00	
920 Philadelphus Virginialis, 12 to 18 ins.	3.50	30.00
1500 18 to 24 ins.	4.50	40.00
140 2 to 3 ft.	5.50	50.00
1300 3 to 4 ft.	6.50	60.00
8300 Privet, Amur River North, 2 to 3 ft.	2.50	20.00
5400 Privet, Amur River North, 3 to 4 ft.	3.00	25.00
670 Privet, Iboium, 9 to 12 ins.	.90	8.00
120 12 to 18 ins.	1.50	12.00
560 18 to 24 ins.	1.50	12.00
120 3 to 4 ft.	1.70	16.00
700 Privet, Regel, 12 to 18 ins.	3.00	25.00
175 Privet, Regel, 18 to 24 ins.	4.00	35.00
125 Rhamnus Frangula, 12 to 18 ins.	5.00	25.00
180 Rhamnus Aromatica, 12 to 18 ins.	3.00	
110 Sambucus Canadensis, 18 to 24 ins.	4.00	
110 2 to 3 ft.	4.50	
100 3 to 4 ft.	5.00	
570 Spiraea Anthony Waterer, 12 to 15 ins.	3.50	32.50
130 Spiraea Arguta, 12 to 18 ins.	3.00	25.00
130 Spiraea Arguta, 18 to 24 ins.	3.50	30.00
220 Spiraea Freesei, 9 to 12 ins.	3.00	27.50
1450 12 to 15 ins.	3.50	32.50
1530 15 to 18 ins.	4.00	37.50
300 18 to 24 ins.	4.50	42.50
180 Spiraea Opulifolia Aurea, 12 to 18 ins.	3.00	25.00
1700 18 to 24 ins.	3.50	30.00
130 2 to 3 ft.	4.50	42.50
100 3 to 4 ft.	5.00	47.50
110 4 to 5 ft.	6.00	55.00
430 Spiraea Opulifolia Nana, 2 to 3 ft.	5.00	45.00
560 3 to 4 ft.	6.00	55.00
170 4 to 5 ft.	6.50	60.00
100 Spiraea Prunifolia, 12 to 18 ins.	3.50	
160 Spiraea Prunifolia, 18 to 24 ins.	4.00	
130 Spiraea Thunbergi, 12 to 18 ins.	4.00	
3670 Spiraea Vanhouttei, 12 to 18 ins., hdg.	.90	8.00
3400 18 to 24 ins., hdg.	1.10	10.00
145 18 to 24 ins.	3.00	
120 2 to 3 ft.	3.50	30.00
150 Symphoricarpos Racemosus, 12 to 18 ins.	2.00	
190 Tamarix Amurensis, 18 to 24 ins.	3.00	
190 Tamarix Amurensis, 2 to 3 ft.	3.50	
150 Tamarix Gallica, 18 to 24 ins.	3.00	
120 2 to 3 ft.	3.50	
100 3 to 4 ft.	4.00	
340 Tamarix Hispidula, 18 to 24 ins.	3.50	
680 2 to 3 ft.	4.00	37.50
700 3 to 4 ft.	5.00	47.50
890 Viburnum Americanum, 12 to 18 ins.	4.00	
180 Viburnum Americanum, 18 to 24 ins.	4.50	
140 Viburnum Lentago, 18 to 24 ins.	4.50	40.00
320 2 to 3 ft.	5.50	50.00
370 3 to 4 ft.	6.50	60.00
140 4 to 5 ft.	7.00	65.00
130 Viburnum Molle, 12 to 18 ins.	3.50	30.00
170 18 to 24 ins.	4.00	
260 3 to 4 ft.	4.50	40.00
370 Viburnum Opulus, 12 to 18 ins.	6.00	55.00
290 Viburnum Opulus, 18 to 24 ins.	4.50	40.00
1620 Viburnum Opulus Sterile, 12 to 18 ins.	4.00	35.00
170 2 to 3 ft.	5.50	50.00
1770 3 to 4 ft.	6.00	55.00
430 Weigela Eva Rathke, 12 to 18 ins.	2.00	
380 18 to 24 ins.	3.50	
470 2 to 3 ft.	4.50	
250 Weigela Floribunda, 2 to 3 ft.	3.50	
130 Weigela Floribunda, 3 to 4 ft.	4.00	
100 Weigela Rosa, 12 to 18 ins.	2.50	

## VINES

1090 Boston Ivy, 2-yr., 1.	4.50
900 Boston Ivy, 2-yr., Med.	3.00
360 Honeysuckle, Hall's, 2-yr., 1.	2.50
470 Honeysuckle, Hall's, 2-yr., Med.	1.50
560 Honeysuckle, Flaming Beauty, 2-yr., 1.	4.50
1300 Silver Lace Vine, 2-yr., 1.	4.50

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5 Ash, White, 2 1/2 to 3-in. cal.	\$ 10.00
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2 6 to 6 1/2-in. cal.	25.00
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2 Hackberry, 2 1/2 to 3-in. cal.	15.00
9 3 1/2 to 4-in. cal.	20.00
6 Oak, Pin, 2 1/2 to 3-in. cal.	10.00
11 3 to 3 1/2-in. cal.	15.00

## LINING-OUT STOCK

	Per 100	Per 1000
1180 Berberis Atropurpurea, 2-yr., S., 9 to 12 ins.	\$12.00	\$110.00
12,000 Berberis Thunbergi, 2-yr., S., 9 to 12 ins.	7.50	70.00
425 Cydonia Japonica (Upright), 10 to 12 ins.	12.50	
1425 Deutzia Gracilis, 2-yr., T., 3 to 6 ins.	10.00	
8770 Deutzia Gracilis, 2-yr., T., 6 to 9 ins.	12.50	
2070 Deutzia Lemnol, 2-yr., T., 6 to 9 ins.	10.00	
1275 Forsythia Primulina, 1-yr., C., 6 to 12 ins.	4.00	35.00
925 1-yr., C., 12 to 18 ins.	5.00	50.00
1360 1-yr., C., 18 to 24 ins.	7.00	65.00
1250 Forsythia Spectabilis, 1-yr., C., 6 to 12 ins.	4.00	35.00
225 Forsythia Spectabilis, 1-yr., C., 18 to 24 ins.	7.00	65.00
1000 Honeysuckle, Bella Albida, 1-yr., C., 18 to 24 ins.	6.00	55.00
1325 Honeysuckle, Grandiflora, 1-yr., C., 18 to 24 ins.	6.00	55.00
2600 Rhododend, 2-yr., S., 6 to 12 ins.	12.00	100.00
4075 Viburnum Dentatum, 3 to 6 ins.	6.00	
2950 Viburnum Molle, 3 to 6 ins.	6.00	
1450 6 to 12 ins.	12.50	
1250 18 to 24 ins.	22.50	

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Scotch Pine (Riga), 3-0, 8 to 12 ins.....	\$ 5.00	\$30.00
2-0, 2 to 4 ins.....	2.50	15.00
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American Red Pine, 2-0, 2 to 4 ins.....	3.00	18.00
3-0, 4 to 6 ins.....	4.00	25.00
3-0, 6 to 9 ins.....	5.00	30.00
4-0, 10 to 18 ins.....	6.00	40.00
Banks Pine, 2-0, 5 to 10 ins.....	2.50	15.00
Japanese Red Pine, 3-0, 8 to 16 ins.....	4.00	25.00
Austrian Pine, 2-0, 3 to 6 ins.....	4.00	30.00
Ponderosa Pine, 3-0, 8 to 14 ins.....	5.00	30.00
White Pine, 2-0, 3 to 5 ins.....	3.50	20.00
White Pine, 3-0, 5 to 10 ins.....	4.50	30.00
Mugho Pine (True Dwarf Tyrolean), 2-0, 2 to 4 ins.....	4.00	25.00

## Spruce Seedlings

Norway Spruce, 2-0, 3 to 5 ins.....	3.00	18.00
2-0, 5 to 8 ins.....	4.00	25.00
3-0, 6 to 10 ins.....	5.00	30.00
4-0, 10 to 16 ins.....	6.00	50.00
Colorado Blue Spruce, 2-0, 2 to 4 ins.....	3.50	25.00
Colorado Blue Spruce, 3-0, 4 to 6 ins. Sold out.....		
Black Spruce, 2-0, 3 to 5 ins.....	3.00	20.00
Black Spruce, 2-0, 5 to 8 ins.....	4.00	30.00
White Spruce, 2-0, 2 to 4 ins.....	3.50	18.00
White Spruce, 2-0, 4 to 8 ins.....	4.50	30.00
Engelmann Spruce, 2-0, 3 to 6 ins.....	4.00	30.00
Engelmann Spruce, 3-0, 6 to 10 ins.....	5.00	40.00

## Fir Seedlings

Douglas Fir, 2-0, 3 to 5 ins.....	3.50	25.00
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## Larch Seedlings

Japanese Larch, 2-0, 5 to 10 ins.....	3.00	25.00
Japanese Larch, 3-0, 14 to 30 ins.....	5.00	35.00
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Hemlock (Canadian), 2-0, 3 to 6 ins.....	4.50	35.00
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## Blight-Resistant Chestnut

Chestnut, 1-0, 10 to 16 ins. (30c each in 10 Lots).....	25.00	
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American Pyramidal Arborvitae, 2-0, 2 to 4 ins.....	3.00	20.00
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# SCHROTH'S NURSERY

INDIANA, PA.

— SEEDLINGS OF QUALITY —

whole, this member, *Physaria didymocarpa*, won a place in my affections the moment I saw its pretty leaves and their attractive arrangement. The white (canescent) radical leaves are arranged in a rosette, about three inches tall, reminding one of a wide-spreading *sempervivum* and producing a garden effect unlike any other plant that I now recall. The yellow cross flowers which grow on spreading branches in early summer are typical of the family.

The foregoing is, I know, a poor description of a distinctive plant, but it is the best that can be done without going into a lot of technical details. Even though it is biennial, I still think the plant has sufficient garden value to justify sowing the seeds yearly and growing the plants.

## DALLAS ADVERTISING CODE

The Dallas, Tex., better business bureau and the nurserymen of Dallas have adopted the following standards for advertising and selling of nursery stock:

"1. All advertising statements must be accurate and not designed to mislead the consumer.

"2. All nursery advertising which quotes the selling price or prices of specific nursery stock items shall likewise disclose the grade or grades of such items. Grades used shall conform to the American standard for nursery stock sponsored by the American Standards Association.

"3. Advertised guarantees shall state the period of time covered by such guarantees and shall be construed to mean that any stock, purchased from the guarantor, which dies during the guarantee period shall be replaced free of any additional cost or charge to the purchaser, unless otherwise stated.

"4. We believe in the importance of advertising as a sales instrument, as well as a service to the public, and pledge our support of the declaration of advertising principles of the Dallas Advertising League."

The intent of these standards is to encourage and preserve dependability in advertising and selling of nursery stock. They apply equally to newspaper advertisements, radio and television advertising, direct mail, window displays, signs, cards and advertising promotion of any form. It is the spirit of these standards that advertisements and accompanying practices of advertisers shall be truthful, clear and fair to customers and competitors alike.

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# This Business of Ours

*Reflections on the Progress and Problems of Nurserymen*

By E. Sam Hemming

## GROWING HOLLY HEDGES

Some 20 years ago when my father grew too much boxwood he also grew too much American holly. Unfortunately he was considerably ahead of his time, for holly is a fine plant and is just now coming into real popularity. It was his idea and hope that he could popularize the plant for use in hedges. It is not entirely true that the plant was a commercial failure; in fact, we planted a good many hedges and specimens, and, while we did not sell all we grew, I believe the plant was actually profitable. Of course if we had had the many thousand young 3 to 4-foot and 4 to 5-foot trees we once had it would have been another matter. Nevertheless, a good many were planted out, and now that holly has its present-day popularity perhaps a few remarks about its behavior as a hedge might benefit those who are growing it in considerable quantity.

American holly grows well in eastern United States along the Atlantic from southern Massachusetts to Florida, and inland from southern Pennsylvania to the Mississippi, avoiding the cold, wind-swept midwest. Contrary to the general opinion of former times, holly is not difficult to transplant when nursery grown. Plants three times transplanted, from pots, to beds, to field, move easily as 2 to 3-foot and 3 to 4-foot plants. Even the season of the year is unimportant if they are not exposed to dry winds. The only really bad time to move them is when the soft new growth is on them, in late April or early May.

Holly likes a rich, peaty topsoil, and, while it is considered to be a plant that will stand considerable wetness, particularly when growing in the wild, it tends to yellow when planted in poorly drained soil. Hedges are best planted with relatively small-size plants spaced about 30 inches and should be pruned back with clippers or knife the first year and once a year thereafter in spring, just before the new growth is made. Holly has many desirable characteristics as a hedge; it is evergreen and attractive the year around, with the added bonus of winter berries, and it is a long-lived hedge. Hedges we planted 20 years ago, both those pruned and those neglected, have stood up well, although some of

the latter are 15 feet high while the former have been kept to five feet.

We know of one hedge planted at least 50 years ago by a nurseryman of the 19th century that was still fine the last time we saw it. Holly does not need the constant pruning that so many hedges do, yet it does not take more than four to six years to get an attractive hedge from small plants. Under stimulus when young it will make 12 inches of growth a year. Holly can be pruned severely when necessary; an old, ragged, neglected hedge can be cut way back if pruned just before the new growth is made, and it will sprout beautifully. In fact it can be cut back to the ground at that time of the year, although that is rarely necessary. You hear of all sorts of fancy feeding formulas for holly, but we have

grown some mighty fine plants with just a garden fertilizer like Vigoro. All of the following will keep the plants growing and in good color: Chicken manure, peat moss and fertilizer, barnyard manure, cottonseed meal and sawdust with nitrogen added.

About the only disease problem we have with holly hedges at all is a white scale that occasionally infests them and which has, in a couple of instances, killed several plants in a hedge. When attacked, the plants should be sprayed with an oil spray. I have seen plants that have recovered of their own accord, but that is a risk. The other two pests on holly, black spot and miner, come and go and rarely damage the plants or make them unsightly. Here, feeding seems better than spraying.

On the basis of observations made over 20 years, I think it safe to say that the American holly makes one of the choicest permanent evergreen hedges and the numerous growers of the plant would do well to push it for that purpose.

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### Betula Lenta

The sweet birch, *Betula lenta*, is a relatively common woodland tree in the northeastern states, but it has not been used extensively as an ornamental tree. The sweet, or cherry birch, as it is sometimes called, is a large tree at maturity, reaching a height of 75 feet or more. It is comparatively narrowly pyramidal in form while young, but later becomes broader and more round-headed in outline.

The native habitat of *Betula lenta* is from Maine to Alabama, west to Ohio. The generic name, *betula*, is the ancient Latin name of the birch. The specific name, *lenta*, comes from the word *lentus*, meaning pliant or tough and refers to the condition of the wood.

The bark of the trunk is attractive, being reddish-brown to black in color and cherry-like. The bark is close on young twigs, but somewhat fissured on the trunks of old trees. The young bark is aromatic and agreeable to the taste.

The leaves of the sweet birch are alternately arranged on the young twigs and seemingly borne in pairs on short spurs on the older wood. The leaves are oblongovate in shape, two and one-half to four and three-quarters inches in length, taper-pointed, usually heart-shaped at the base, with the margins doubly serrate. During the summer the leaves are dark green above and somewhat lighter beneath; they turn an attractive light to golden-yellow color in the fall.

The flowers and fruits are borne in catkins.

The sweet birch grows best in a woodland soil retentive of moisture. It transplants fairly readily, especially in small sizes, and is hardy. Few insects or diseases trouble the sweet birch. It does not appear to be so susceptible to leaf miner as several of the other species. Propagation is by seeds.

*Betula lenta* will be of use primarily for woodland plantings and for park areas, but it deserves more attention as a lawn tree. L. C. C.

DR. HERBERT R. ALBRECHT, head of the department of agronomy at Pennsylvania State College and widely known for his work in forage crop research, has been named director of the agricultural and home economics extension service at the college, effective next July 1. He will succeed H. J. Martin Fry.



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# Maryland Nurserymen's Day

By L. J. Enright

The 1953 Maryland nurserymen's day, held at the University of Maryland on February 19, proved to be one of the best in the history of the association.

The president of the Maryland Nurserymen's Association, Robert S. Johnston, Eastern Shore Nursery, Easton, Md., opened the meeting with an address of welcome.

## Soil Sterilization

Dr. Carroll E. Cox, professor of plant pathology at the University of Maryland, followed President Johnston and gave an informative talk on soil sterilization and its application to nursery practices.

He pointed out that soil is a dynamic medium, containing, in addition to rock particles, decaying organic matter, various minerals, water and air and a number of living organisms. Among the last are worms, insects and many kinds of fungi and bacteria. Most of the living organisms are either harmless or actually beneficial, but a few cause destructive plant diseases. Root knot is caused by a nematode. Other species of nematodes attack roots, bulbs, stems and foliage of various plants. Pathogenic, soil-inhabiting fungi and bacteria are responsible for poor emergence and damping-off of seedlings, root rots and crown rots and other diseases such as fusarium and verticillium wilts. Soil sterilization offers a practical means of controlling certain of these diseases.

Dr. Cox then described the methods of heat treatment and chemical fumigation and gave a detailed description of many of the commercially available materials. He showed several excellent slides to illustrate the methods of handling fumigation equipment.

## New Insecticides

Dr. George S. Langford, professor of entomology, University of Maryland, discussed the new chemicals for the nursery industry in an interesting talk to the group. He pointed out that the publicity given to some of these insecticides is about equal to that written about the atom bomb—and in some cases the effects of these materials are equal to those of a bomb!

Dr. Langford traced the history of insecticides from the five or six which were on the market before World War II to the present list of

hundreds which are available to the nurseryman. After an explanation of the formulation, application and effectiveness of many of the new insecticides, he mentioned that there is an abundant supply of commercial products on the market and that they will all do exactly what the manufacturers claim for them. If the labels are read carefully and the directions carried out carefully, the user should have satisfactory results from almost any product that he selects.

In his talk on soil conditioners and their nursery application, Dr. E. Strickling, assistant professor of soils at the University of Maryland, pointed out that conditioners are materials which prevent soils from slaking, and that they have no nutrient value or other effect on the soil. Dr. Strickling said that the ma-

terials must be incorporated into the soil before the user will reap any of the benefits. It is recommended that the soil be prepared and put into the condition the nurseryman would like to keep it in and then treat it with the conditioner. Although the products are expensive to use in quantity, their cost is being lowered through the development of new manufacturing techniques and it should not be too long before they can be incorporated into the average nurseryman's budget.

## Irrigation

The importance of "tailor-made" irrigation systems was stressed in an address given by Dr. G. J. Burkhardt, professor of agricultural engineering, University of Maryland. Because no two nursery areas are identical it is unwise to try to adapt an irrigation system to different sites without providing for these differences in calculating pipe sizes, head pressures and pump horsepower requirements. He also mentioned that water sources

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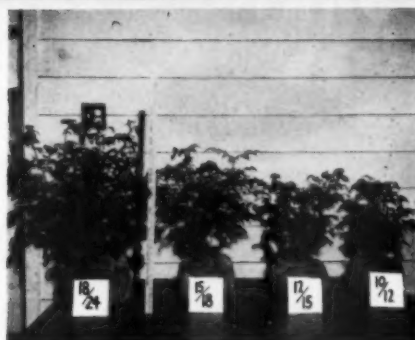


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must be tested thoroughly before the installation of a system to make certain that the supply is not contaminated.

The Styers' Nurseries, Concordville, Pa., were represented by J. L. Styer who gave an interesting talk on the maintenance and operation of the nursery salesyard.

Mr. Styer said his experience proved that there is no substitute for a large ball when plants are to be moved. With such practices the shock to which all transported plants are exposed is reduced considerably. Plants that are difficult to transplant, such as the firethorn, are best grown in containers and then turned over to the customer without removal. He pointed out that this same shock presents a problem in the salesyard because the plants tend to appear wan or depressed a day or so after they are brought from the field to the sales area. For this reason, it is a good idea to refresh the plants before exhibiting them to the general public. Mr. Styer said that because the canned plants are stored on the soil surface, rather than in the earth, they require less water, but they should be watered with a hose in the salesyard because too many are missed when a sprinkler is used. Canned plants have been found to overwinter better than those left in the field.

Kodachrome slides were shown of the Styer firm's field and salesyard techniques to add further interest and color to a fine talk.

**Services**

Prof. C. N. Johnson, landscape extension specialist, in the university's department of horticulture, acted as moderator for a group discussion on the topic "What Goes With the Plant When You Sell It?" The moderator presented himself to the group as a new homeowner who wanted his property planted and developed but who also knew nothing about what he might expect from the nurseryman or landscape contractor. A lively discussion period followed in which many good suggestions were brought forth. It was the general opinion that an effort should be made to determine the amount of money the customer wishes to spend, the use to which he hopes to put his property and whether or not he has the time or effort to maintain the planting properly. It was agreed that the client should be shown the plants the contractor intends to use on the property.

Because of the many variations in circumstance, it was felt that no general pattern could be drawn for



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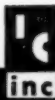
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plant guarantees extended over long periods of time. However, everyone did feel that plants should be guaranteed to be true as represented and to grow during the next growing season if given proper care. If the plants fail to grow they should be replaced at one half the original retail price.

Dr. L. J. Enright, assistant professor of ornamental horticulture at the University of Maryland, explained that plant lists of nurserymen and landscape architects are being drastically revised because of the strong trend toward ranch-style homes. He said that because plant material increases rather than depreciates in value, it will increase the property value considerably over a period of years, and this in turn will offset the actual house depreciation for a number of years.

With color slides, Dr. Enright illustrated improper plantings around small homes and compared them with others which were done in good taste with true dwarf plants. He described the true dwarf plants and suggested a large number for landscape use with contemporary architecture.

The meeting ended with a tour through the new range of greenhouses to see the many research projects now in progress at the university.

### ELM DISEASE BULLETIN

Most elm species, particularly the American, growing in the east, midwest and south, are plagued with Dutch elm disease. In the midwest, elm phloem necrosis is killing many fine trees. Ways to prevent and control these two elm diseases are outlined in United States Department of Agriculture bulletin 329.

The bulletin explains that insects spread both of these diseases. Elm bark beetles transmit the Dutch elm fungus from tree to tree, and a leaf hopper spreads the virus that causes phloem necrosis.

Information as to how these diseases can be detected, along with sprays for control, are given in the release. The bulletin may be obtained by writing to the office of information, United States Department of Agriculture, Washington 25, D. C.

RAYMOND G. GASKILL has accepted a position with the Stedman Nurseries, Newfane, N. Y., where he will be in full charge of the retail sales department. Mr. Gaskill was formerly superintendent of grounds at Willard State hospital, Willard, N. Y.



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The 1952 Special Number was the largest issue of the American Nurseryman ever published, in terms of advertising volume, total pages and color pages. The continued growth of the magazine promises an even greater Special Number this year. It truly will be a milestone in horticultural trade journalism, and you are cordially invited to take part in it.

Now is the time to send in your space reservation. The low cost is possible because we are able to print all full-color advertisements in one press run, and this run must be completed in advance of the standard black and white forms. Do not be disappointed by delaying too long. Decide now that this year you will have full-color representation in this issue, and write us today. April 1 is the deadline for space orders.

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Two-year grafts in:

**Lilacs** in choice varieties  
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**Purple Beech, Rivers**

**Red Japanese Maple** (sold out)

**Wistaria Chinensis** (blue)

**Wistaria Rosea** (pink)

One-year grafts in:

**Cotoneaster Multiflora** (true)

**Koster Blue Spruce** (sold out)

**Lilacs** in choice varieties  
(true to name)

**Viburnum Carlesi**

Two-year transplants in:

**Cotoneaster Divaricata**

**Euonymus Vegetus** (sold out)

**Ilex Convexa** (cuttings)

**Taxus Brevifolia**

**Taxus Cuspidata** (spreading)  
(sold out)

**Taxus Hatfieldi**

One-year transplants in:

**Forsythia Spring Glory** (new)

**Juniperus Glauca Hetzi**

**Magnolia Soulangeana**  
(grown from cuttings)

**Regel's Privet** (genuine)  
(sold out)

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18 to 24 ins.

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## OBITUARY

Carl A. Bosenberg

Carl A. Bosenberg, owner of the Maple Meade Nursery, New Brunswick, N. J., died at his home February 19.

Mr. Bosenberg was born in Germany, son of the late Henry and Margaretta Rindfuss Bosenberg. His family had been in the nursery business in Germany and when Mr. Bosenberg came here as a young man he set up a similar business.

A brother, Henry, also of New Brunswick, is a landscape architect, and a brother-in-law and sister, Mr. and Mrs. Otto Wolf, own a nursery at New Brunswick.

Mr. Bosenberg belonged to the New Jersey Association of Nurserymen; the American Association of Nurserymen; the Tall Cedars of Lebanon; the New Brunswick Forest 12, and other organizations.

He is survived by, in addition to the brother and sister already mentioned, his widow, Alice Call Bosenberg; a daughter, Mrs. William Schmoldt, Highland Park, N. J.; two grandsons; another brother, and another sister.

James W. Adams

James W. Adams, 82, founder of the Richmond Nurseries, Richmond Beach, Wash., died January 25, it has been learned. Mr. Adams moved to the Seattle area from San Francisco, Calif., 50 years ago and started his nursery with five acres of virgin timberland which he planted with fruit trees. Many commercial orchards secured their plantings from the Richmond Nurseries in those pioneer days.

His son, Raymond, was taken in as a partner of the firm and has been managing the business recently.

His firm is a member of the American Association of Nurserymen.

Besides his son, Mr. Adams is survived by a sister, Mrs. Allie Duffy, of Santa Cruz, Calif.

Abraham Fremouw

Abraham J. Fremouw, 77, formerly an executive of the Jackson & Perkins Co. and a prominent nursery leader of Newark, N. Y., died January 23, after a brief illness, it has been learned.

Mr. Fremouw started out as a water boy at the age of 9 with the Jackson & Perkins Co. and became one of the firm's chief production managers. He was head of the ship-

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ping department when he retired on January 21, 1943, completing 59 years of service with the New York rose-growing enterprise.

Surviving, besides Mrs. Fremouw, are a son, a daughter, one brother, three sisters, three grandchildren and one great-grandchild.

#### E. P. Holm

E. P. Holm, 81, one of the founders and president of Holm & Olson, Inc., St. Paul, Minn., died February 11 at his home after a heart attack. A native of Sweden, Mr. Holm came to the United States when he was 15.

On October 23, 1953, he celebrated his 81st birthday anniversary and at the same time his firm celebrated its 57th anniversary. From the meager resources of the partnership begun by Mr. Holm and O. J. Olson was built one of the country's outstanding firms with nurseries, greenhouses, retail stores and a distributing agency, which supplies retailers in seven northwest states.

The death of Mr. Olson in 1948 brought an end to the partnership and close friendship of the two founders, but Mr. Holm continued, as president, to be active in the business. During his career he held office in many trade organizations.

Mr. Holm is survived by his widow, Anna Elizabeth; two daughters, Mrs. D. D. Napier and Mrs. Arndt Duvall; a son, Herbert, and several grandchildren.

#### BULLETIN ON NEMATODES

Research on garden nematodes has led to the publication by the United States Department of Agriculture of bulletin F. 2048, "Controlling Nematodes in the Home Garden." Although research over the past years has uncovered about 50 species of nematode that are important as pests, the present bulletin deals only with a few of the principal kinds. The worst of these pests in the garden are the several hot weather species that cause root knot, more or less severe, on the roots of nearly all the common vegetables, several kinds of fruit and many flowers.

Half the bulletin is devoted to control of garden nematodes through different ways of soil fumigation with the two practical fumigants for the home gardener—those with dichloropropene and those with ethylene dibromide. Both are inflammable and toxic to people and animals, but are not dangerous when used as directed. A copy of F. 2048 may be obtained without charge from the agriculture department's office of information, Washington 25, D. C.

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2' to 4 ins., sdgls. ....	\$ 1.00	\$ 5.00
3 to 6 ins., sdgls. ....	2.00	10.00
6 to 9 ins., sdgls. ....	3.00	20.00
9 to 12 ins., sdgls. ....	7.00	45.00
12 to 18 ins., sdgls. ....	9.00	70.00
18 to 24 ins., sdgls. ....	25.00	

Freshly collected. Well-rooted. Puddled and packed in sphagnum moss. Catalog of plants, ferns, etc., on request.

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CHARLOTTE, VT.



## Holly Group Meets in South

By Harry W. Dengler

Admirable, pre-spring weather, friendly and congenial society members and North Carolina nurserymen, comfortable lodging and meeting accommodations, plus helpful cooperation of officials of the University of North Carolina—all added to the pleasure and interest aroused by the special southern meeting of the Holly Society of America at Chapel Hill and Pinehurst, N. C.

Old and new friends enjoyed most pleasant get-togethers; new acquaintances were made; old friendships were cemented; mutual confidences were exchanged; much information swapped and, all-in-all, everyone profited from a completely informal, "premeeting evening," January 14, in the beautiful, university-owned Carolina Inn, at Chapel Hill.

During that usual, brief period of waiting, prior to the opening of any society meeting—Chancellor Robert B. House, University of North Carolina, played a number of melodious selections on the piano. They were enjoyed and appreciated by all.

Society President C. R. Wolf, president of the New Jersey Silica Sand Co., Millville, N. J., called the meeting to order at 10 a. m., January 15.

### Hollies in Landscaping

Ernest Morell, owner of the Holly Tree Nursery, Southern Pine, N. C., opened the program, discussing the many fine uses of holly in landscaping. He recalled that his first interest in holly dated back many years to Germany. Here, his first job was to clean scale off tubbed English holly with a cotton-swabbed stick soaked in a solution of strong soap and kerosene. In those days, as an apprentice of the nursery industry, it was required to keep complete and accurate records of everything done; the keeping of a diary was absolutely essential.

Some years later, Mr. Morell moved to England. There he became astonished with and enamored of the many beautiful English hollies he discovered. When he eventually reached America he learned that no one knew anything or cared more than a little about the hollies.

In later years he eventually moved to Southern Pine, N. C. No hollies were then available, so Mr. Morell imported seeds from China and eventually assembled a large collection of

beautiful and unusual hollies. His ambition was to start a holly arboretum, but he could not interest any of his customers in such an undertaking. Finally, F. W. Howe, a Buffalo, N. Y., businessman, became interested. This resulted in Clarendon Gardens, a newly developed showplace near Pinehurst, N. C. Mr. Morell complimented Mr. Howe for his foresight and interest in the holly genus; he stated that Clarendon Gardens is an excellent site for a holly arboretum, since both northern and southern members of this group can be used there with success and effect.

Mr. Morell then showed a series of beautiful Kodachrome slides depicting the uses of hollies and associated plants in many of the gardens and estates he designed and planted along the eastern seaboard.

The Belgian and Dutch strains of English holly in tubs would be good

items for the florist, Mr. Morell said. Holly hedges are excellent, with only one clone or strain used for each hedge; the plants should be set and then cut back to the ground for fullness. Hollies with their lower branches removed, as shade or avenue trees, are effectively underplanted with azaleas, camellias and with other associated plants, he stated. Many hollies thrive under hot, adverse, city conditions.

*Ilex purpurea oldhami* is a beautiful, upright tree and is hard to transplant; seeds come up the first year, though. *Ilex cassine myrtifolia* is an attractive plant and should be used more than it is. *Ilex attenuata* is another attractive plant. *Ilex pernyi veitchii* is the prettiest of all the hollies. East Palatka is one of the most graceful. *Ilex cornuta burfordi* grows up to 18 feet tall; it is being overplanted in the south, Mr. Morell warned. *Ilex glabra* should be used more in the woods, planted with azaleas in drifts; it also makes a good specimen plant. Representatives of *Ilex crenata* are now naturalizing themselves in Mr. Morell's area through the efforts of birds; this

LANDSCAPE-SIZE SHRUBS			LINING-OUT STOCK		
<i>Clethra alnifolia</i>	Per 10	Per 100	<i>Clethra alnifolia</i>	Per 100	Per 1000
2 to 3 ft.	\$ 6.00	\$ 50.00	6 to 18 ins.	\$ 7.00	\$ 60.00
3 to 4 ft.	8.00	70.00			
<i>Ilex verticillata</i>			<i>Ilex verticillata</i>		
2 to 3 ft.	6.00	50.00	1 to 2 ft.	7.00	60.00
3 to 4 ft.	7.00	60.00	<i>Syringa vulgaris</i>		
<i>Viburnum cassinoides</i>			1 to 2 ft.	7.00	60.00
2 to 3 ft.	5.00	40.00	<i>Viburnum acerifolium</i>		
3 to 4 ft.	6.00	50.00	6 to 18 ins.	8.00	70.00
<i>Viburnum dentatum</i>			<i>Viburnum cassinoides</i>		
2 to 3 ft.	4.50	35.00	1 to 2 ft.	8.00	70.00
3 to 4 ft.	6.00	50.00	<i>Viburnum dentatum</i>		
			1 to 2 ft.	8.00	70.00
CLUMP BIRCH			EVERGREEN TRANSPLANTS		
<i>Paper Birch</i>			<i>Abies balsamea</i>		
6 to 8 ft.			4 to 8 ins., trans., 2-2	12.00	100.00
3 stems and up.	40.00	....	<i>Thuja occidentalis</i>		
<i>Gray Birch</i>			18 to 24 ins.,		
4 to 6 ft., 3 to 6 stems	20.00	150.00	trans., 2-3	40.00	....
6 to 8 ft., 3 to 6 stems	35.00	250.00	<i>Tsuga canadensis</i>		
			4 to 8 ins., trans., 2-1	15.00	120.00
PAPER BIRCH			EVERGREEN SEEDLINGS		
<i>Betula papyrifera</i>			Collected		
2 to 3 ft.	\$ 8.00	\$ 70.00	<i>Tsuga canadensis</i>		
3 to 4 ft.	25.00	200.00	4 to 8 ins.	4.00	20.00
4 to 6 ft.	40.00	300.00	8 to 12 ins.	6.00	50.00
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plant can be trimmed to formal shapes, but must not be trimmed too closely since this will prevent air movement and may cause diseases. *I. crenata helleri* is a lovely little holly; there are a number of different types of *helleri*, he concluded.

G. Flippo Gravatt, department of forest pathology, United States Department of Agriculture plant industry station, Beltsville, Md., reported that, as a class, the hollies do not have many diseases. His organization is not able and is not doing too much on holly diseases; rather, they are encouraging state pathologists to study this problem. He stated that overplanting of any one species in one area is not too desirable. Mr. Gravatt hoped for more test gardens, such as the society is encouraging, to determine which of the holly species, and their varieties, should be planted locally.

Mr. Gravatt said that the now out-of-print farmers' bulletin, "Growing Holly," is in the process of being revised.

#### Holly Orchard Problems

Daniel G. Fenton, New Jersey Silica Sand Co., Millville, N. J., stated that there are many problems to be considered in planting and cultivating a holly orchard. Before discussing the problems, he told about the orchard located at the industrial sand plant, at Millville. The holly orchard consists of approximately 2,800 holly trees about 12 to 16 feet in height. The holly is harvested at Christmas and sent to sand customers and friends as gifts. The firm does not sell holly in any form.

He mentioned some problems. The first difficulty, he said, is to know the distance apart to plant the trees. The trees are nearly touching each other in the Millville orchard. New orchards should be planted at least 22 feet apart. This distance looks great as the trees are small, but as the trees grow it is barely enough room. In an orchard in Georgia, Mr. Fenton related, where the owner encountered the same problem, all newly planted trees are planted with the rows 25 feet apart and the hollies 22 feet apart in the row.

The insect pests which bother hollies are leaf miner, red spider mite and scale. The use of DDT to control the leaf miner has caused an increase in the infestation of the last two insects. These insects can be controlled by spraying as described in the holly society's bulletin No. 2.

The sand company's orchard is fertilized with chicken manure sup-

## SEEDLINGS

<i>Euonymus alatus</i> , 1-yr., sdlg., 2 to 3 ins.	100	1000
<i>Pinus sylvestris</i> , 2-yr., sdlg., 4 to 8 ins.	\$5.00	\$45.00
<i>Pinus sylvestris</i> , 3-yr., sdlg., 6 to 10 ins.	4.00	35.00
<i>Sorbus aucuparia</i> , 1-yr., sdlg., 6 to 12 ins.	6.00	50.00
<i>Syringa vulgaris</i> , 2-yr., sdlg., 4 to 8 ins.	7.50	
	5.00	45.00

Well-established cuttings from 2 1/4-in. pots

<i>Euonymus carrierei</i>	10	100
<i>Euonymus vegetus</i>	\$2.25	\$17.50
<i>Ilex crenata bullata</i>	2.25	17.50
<i>Ilex crenata microphylla</i>	2.25	17.50
<i>Ilex glabra</i>	2.25	17.50
<i>Juniperus horizontalis</i> Bar Harbor	2.25	17.50
<i>Juniperus pfitzeriana</i> nana	2.75	22.50
<i>Juniperus suecica</i>	2.25	17.50
<i>Juniperus suecica</i> nana	2.25	17.50
<i>Taxus cuspidata densiformis</i>	2.25	17.50
<i>Taxus media clifforti</i>	2.25	17.50
<i>Taxus media hatfieldi</i>	2.25	17.50
<i>Taxus media hicksi</i>	2.25	17.50
<i>Taxus media Moon's columnaris</i>	2.25	17.50
<i>Taxus media Vermeulen</i>	2.25	17.50

Grafted stock from 2 1/4-in. pots. Spring, 1953, delivery only.

<i>Acer palmatum atropurpureum</i>	10	100
<i>Acer palmatum dissectum atropurpureum</i>	\$7.50	\$65.00
<i>Cornus florida rubra</i>	7.50	65.00
<i>Magnolia lennei</i>	6.00	50.00
<i>Magnolia rustica rubra</i>	7.50	65.00
<i>Magnolia soulangeana</i>	7.50	65.00
<i>Magnolia soulangeana nigra</i>	7.00	60.00
<i>Magnolia stellata</i>	7.00	60.00

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Cornus Florida Alba Plena	50.00	
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Cornus Florida Rubra	50.00	\$450.00
Cornus Florida Rubra Prosser	65.00	
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Fagus Sylvatica Asplenifolia (Fernleaf)	65.00	
Fagus Sylvatica Fastigiata (Pyramidal)	65.00	
Fagus Sylvatica Pendula	65.00	
Fagus Sylvatica Riversi (Purple Beech)	65.00	
Magnolia Alba Superba	60.00	
Magnolia Lennei	65.00	
Magnolia Soulangeana	60.00	
Magnolia Soulangeana Nigra	60.00	
Magnolia Stellata	60.00	
Magnolia Stellata Rosea	60.00	
Magnolia Stellata Rubra	60.00	
Magnolia Stellata Waterlily	60.00	
Pinus Cembra	50.00	
Pinus Strobus Nana	50.00	
Pinus Strobus Pendula	50.00	
Pinus Parviflora Glauca	50.00	
Picea Moerheimi	100.00	
Tanyosho Japanese Table Pine	40.00	
Tsuga Canadensis Heterophylla	40.00	
Tsuga Canadensis Sargentii	45.00	
Wistaria Multijuga (Lavender clusters)	40.00	

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plemented by a chemical fertilizer containing the minor elements as well as the major elements. Chicken manure is applied liberally in early spring. The chemical fertilizer is applied in spring at the rate of one or two pounds per tree. He warned not to feed the hollies too late in the year or late growth may be stimulated and winter injury result.

### Mulching Precautions

Mulching should not be done too close to the trees. Field mice will live in this mulch and will feed on the bark of the tree, he said. Many trees are girdled and eventually killed in this manner. The mulch must be kept at least two feet from the trunks of the trees.

Another pest at the Millville orchard are the robins, which come in and eat berries before the harvest for Christmas. While migrating south they stop to eat at the orchard and normally many stay all winter, he said. No satisfactory control or repellent has been found for the robins. They are selective and will finish a tree of one variety before starting on another variety, he recalled.

Of course, deer and humans may also cause trouble if the orchard is located near a wooded area or a highway.

Mr. Fenton reported much trouble with late spring frosts in his area. If frost kills the new growth or blooms there will be no berries that year. Wind machines and smudge pots are used to control this problem.

Bees are imported into the orchard to insure pollination between the male and female blooms. About one male is needed for every 10 females to insure plenty of fruit, Mr. Fenton believes.

A sandy well-drained soil is best suited for raising hollies in New Jersey, he concluded. After this, slides on the development of an orchard and some on harvesting were shown.

### What Is an Arboretum?

Dr. Francis de Vos, of the staff of the National Arboretum, Washington, D. C., discussed the need for, the purpose of and the value of arboretums. He stated that the large arboretum, with ample funds to carry out extensive research, to display all woody plants which are hardy in its region and to introduce new plants, is important and necessary. There has been, however, and still is, need for the small arboretum throughout the country. The concept of the small arboretum which limits its planting for display to only "the best" for its locality, after trials have been made, has been attributed to



Dr. John Wister, director of the Arthur Hoyt Scott Horticultural Foundation, at Swarthmore College, Swarthmore, Pa.

Another approach for the small arboretum is the limiting of its planting to a restricted number of families or genera of woody plants. The Westtown School Arboretum, Westtown, Pa., which is comprised of 30 acres, has limited its efforts in recent years, due to lack of funds, to the single genus abies. The result has been that this small arboretum probably contains the most complete collection of firs in the country. These approaches should be emulated in other existing and proposed small arboreturns, Dr. de Vos told the group.

It is no doubt obvious to plantmen that the absolute low temperature that can be expected in any given area is the factor which, more than any other, determines what plants will survive outdoors. Growers can usually modify their soils to fit the requirements of their plants and supplement the rainfall by watering, Dr. de Vos said, but there is little that can be done in a practical way to change the absolute low temperature. It is true that, by selecting favorable sites and providing protection, it is possible to grow outdoor plants which would normally be killed by low temperatures in unfavorable sites in the same general area.

The botanical garden differs from the arboretum in that its emphasis is not placed on any particular kind of plant, he stated. This is not to say, however, that a botanical garden does not attempt to specialize in a particular family or genus of plants. The woody plants of the botanical garden are grown in two places (1) those that are not hardy outdoors in that area are grown in conservatories (e.g., palms and other tropical trees growing in the New York Botanical Garden), and (2) those that are hardy outdoors are, for the most part, grown in a natural outside location designated as the arboretum.

#### Arboreturns and Parks

The difference between an arboretum and a park is not always clear-cut, he declared. Generally speaking, a park is designed for recreational purposes, such as ball playing, amusements, swimming and the like. There is usually no consistent effort to label and keep labeled the trees and shrubs which occur naturally or are brought in for landscaping purposes. Some of the parks

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(Each kind) ..... **\$15.00** per 100

#### POT or BANDED PLANTS

(Each kind) ..... **\$3.50** per 12, **\$20.00** per 100

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GLOUCESTER, MASS.

## COTONEASTER

These are all strong seedlings.

	Per 100	Per 1000
Cotoneaster Acutifolia, transplants, 12 to 18 ins. . . .	<b>\$25.00</b>	....
Cotoneaster Divaricata, 1-yr. seedlings, 6 to 10 ins. . .	<b>8.00</b>	<b>\$ 60.00</b>
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#### Cotoneaster Multiflora

Strong, 1-yr. grafts, true to name  
18 to 24 ins.

**\$65.00** per 100

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**C. HOOGENDOORN**

Turner Road

NEWPORT, R. I.





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Soil gassing with  
DOWFUME MC-2  
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All in all, soil treatment with Dowfume MC-2 improves the quality and market value of nursery stock. Seedlings grown in treated beds and flats are remarkably uniform because of Dowfume MC-2's control of soil conditions. This brings more profit to the nurseryman. There is no need to throw away seed bed soil after six or seven years' use. Usually that soil has only become infested with soil pests, and a simple, economical treatment with Dowfume MC-2 (followed by the normal use of fertilizer) will restore its capacity to produce clean, healthy seedlings.

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DOW FUMIGANTS



in the northeast which do label some of their plants are the Boston Public garden; Roger Williams park, Providence, R. I.; Lafayette park, Washington, D. C., and Maymont park, Richmond, Va. The speaker doubted, however, that anyone would classify such parks as arboretums.

There are two parks, however, in the city of Rochester, N. Y.—Highland park and Durand Eastman park—which are arboretum-like in character. The plants in these parks are labeled and, in the past, research work on woody plants has been carried out, a herbarium kept and seed and plant exchange carried out with other arboretums and botanical gardens.

Certainly one of the main functions of any arboretum anywhere is the maintenance of a labeled collection of trees and shrubs which are hardy in that area, Dr. de Vos emphasized. This does not mean, as he already implied, that all species which are hardy in the area will be grown. The physical limitations of the arboretum will in part determine how large or complete the plant collections can be. The thinking of arboretum workers at the present time seems to be that the principal collections of any given arboretum should consist of those plants which can grow more satisfactorily and are not well-represented in existing arboretums.

He cited the example of a proposal of the American Association of Nurserymen to establish, at the National Arboretum, a collection of lilacs. B. Y. Morrison, who was then director, pointed out that not only did the lilacs do poorly there, but there were already in the country two large collections, one in Highland park, at Rochester, and the other in the Arnold Arboretum. This does not mean, he warned, that there would be no lilacs grown at the National Arboretum, but rather that the collection would be restricted to "the best" for its area.

Not only must the plants be well-labeled, but the records concerning their origin should be available and accurate, he continued, expressing the belief that this function of an arboretum can be of real value in helping plant groups to straighten out the confusion of names and the identity of unknown specimens. Dr. de Vos then outlined what he believed were some of the problems confronting the holly society which must be solved before a sound nomenclature in the *ilex* genus can be established.

Another function, he related, in

## AMERICAN NURSERYMAN

### ILEX CONVEXA

15 to 18 ins. — 18 to 24 ins.  
24 to 30 ins.

Specimen quality, sheared.

**Magnolia Soulangeana**

2 to 6 ft., own-root plants.

**Cornus Florida Rubra**

4 to 6 ft.

**Juniperus Hetzi**

1 1/2 to 4 1/2 ft., heavy, sheared.

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Uprights, 2 to 9 ft.

Spreaders, 1 to 5 ft.

Good plants at a price you can afford to pay.

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Growers of fine plants.

Located 3 miles south of Reading, Pa., on Rt. 73. Phone Reading 2-3983.

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### RED OAKS

30,000

In Nursery Rows

20,000 1 to 2-in. cal.

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Other Shade Trees Available.

Write for Prices

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P. O. Box 14 BIRDSBORO, PA.

### EVERGREEN SEEDLINGS

	Per 100	Per 1000
1-yr. Riga Scotch Pine, 2 to 4 ins.	\$4.00	\$22.00
2-yr. Pinus Sylvestris, 3 to 6 ins.	5.00	25.00
2-yr. Aust. Pine, 3 to 6 ins.	6.00	32.00
2-yr. Col. Blue Spruce, 2 to 5 ins.	6.00	32.00
2-yr. Col. Blue Spruce, 5 to 8 ins.	7.00	40.00

	10 Rate Each	100 Rate Each
Col. Spruce, sheared, bushy, field row		
12 to 15 ins., XX, bare root	\$0.75	\$0.70
15 to 18 ins., XX, bare root	1.00	.95
18 to 24 ins., XX, bare root	1.35	1.30

Free packing, cash with order.  
For B&B trees, add 40¢ each.  
Pick up only on B&B.

### GORTON'S NURSERY

R. D. No. 1, East Lake Road,  
HARBORCREEK, PA.

### 1750 JUNIPERUS CHINENSIS PFITZERIANA

2-yr., T. 12 to 15 ins.

\$50.00 per 100

\$450.00 per 1000

Offered Due to Cancellation  
FAIRVIEW EVERGREEN NURSERIES  
FAIRVIEW, PA.

### TAXUS

Upright, 4 to 14 ft.

Truckloads only, no boxing.

### BULK'S NURSERIES

BABYLON, L. I. N. Y.



which the arboretum can engage is the dissemination of information on culture, pruning, fertilizing and protection against insects and diseases through its popular publications. The introduction of new plants from all over the world with special reference to the origin of these plants is an important function from the standpoint of providing not only plants, interesting for what beauty they may possess, but also to provide a "gene pool" for the use of plant breeders in their hybridizing work. New varieties of plants are constantly appearing through plant exploration and plant hybridization. An arboretum can well test the hardiness of such untried varieties. To the students of botany, horticulture and nature study, the arboretum can provide plant materials for research and serve as a laboratory for study.

The scope and functions of an arboretum that he enumerated in his talk did not tell the whole story about this institution. He had the good fortune as a boy, he recalled, to live within easy walking distance of the Arnold Arboretum. To many of the people living in the area who had no grounds of their own to landscape the arboretum filled a need not specifically planned for by its founders. The neighborhood people were not interested in obtaining the names of interesting trees and shrubs for the purpose of ordering similar plants from their nurseryman, they were there to enjoy the shaded benches on hot summer days, to see the mounds of clean snow on evergreen boughs in winter, to enjoy the birds and to enjoy the relative quiet of an otherwise noisy neighborhood. It is inescapable and good that an arboretum can also serve those who have no special interest in woody plants, he observed.

An arboretum is not, then, simply a place where trees and shrubs which are hardy are cultivated for scientific and educational purposes; it is also a place of great beauty and in addition a place where people may find physical and mental relaxation.

#### Ethics and Advertising

Dr. John B. Gartner, horticulturist, North Carolina State College, Raleigh, N. C., stated that he has long been interested in the ethics of good advertising. All over this country can be easily found misleading and fraudulent advertisements. Not only are good nurserymen being injured by such unscrupulous tactics, but also the gullible, unsuspecting and trusting buyers.

The American Association of

## HOLLY LINERS

### Ilex Opaca (Females)

Fine foliage, heavy-fruiting strains, guaranteed true to name.  
Clark, Farage, Griscon, Mamig, Mae, Osa, Goldie (yellow berries).  
\$8.00 per 10, \$75.00 per 100, \$700.00 per 1000.

### Ilex Opaca (Males)

New Jersey Selections

\$7.00 per 10 plants, \$65.00 per 100 plants, \$600.00 per 1000.

These New Jersey selections are entirely winter hardy here and have proved hardy for several winters in Buffalo, N. Y. Plants 6 to 10 ins. high, root-bound in 3-in. pots or beer cans. 25 plants at 100 rate. Try several varieties and see which is best for your location.

### Other Liners

*Taxus Cuspidata*, \$6.00 per 10, \$50.00 per 100, \$450.00 per 1000.  
*Taxus Cuspidata Capitata*, \$6.00 per 10, \$50.00 per 100.  
*Taxus Media Hicksi*, \$6.00 per 10, \$50.00 per 100.  
*Taxus Brevifolia*, \$6.00 per 10, \$50.00 per 100.  
*Ilex Crenata Bullata*, \$6.00 per 10, \$55.00 per 100, \$500.00 per 1000.  
*Franklinia Alataamaha*, from cuttings, 5 to 8 ins. high, \$2.50 per 10, \$20.00 per 100.  
*Calluna Vulgaris Cuprea* and *Alba*, \$1.00 for 4 plants.

Blueberries—Large range of varieties and sizes.

## HOLLY HAVEN, Inc.

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WHITESBOG, N. J.

## ASPARAGUS ROOTS

We are the largest growers of asparagus roots in America. The continued increase in demand for our roots is ample proof of our customers' satisfaction. Our asparagus has made a very good growth again this season, and test digging from various farms indicates the crowns will average better in quality than ever before.

### MARY WASHINGTON ASPARAGUS

	Per 25	Per 100	Per 250	Per 1000
3-yr., No. 1 grade.....	\$1.25	\$4.00	\$8.75	\$30.00
2-yr., No. 1 grade.....	1.00	3.00	5.75	20.00
1-yr., No. 1 grade.....	.75	2.50	4.25	14.00

Write for special prices on quantity lots. We can quote even more attractive prices than those specified in this advertisement to buyers interested in large quantities.

FREE PACKING FOR CASH WITH ORDER. Our regular Wholesale List offers a complete line of nursery stock. If you failed to receive your copy, write us today. When requesting wholesale rates, kindly use your printed stationery indicating you are entitled to trade prices.

## BUNTINGS' NURSERIES, Inc.

SELBYVILLE, DELAWARE

Please Mention AMERICAN NURSEYMAN When Writing Advertisers.

## PACHYSANDRA

The ideal permanent evergreen ground cover plant for shady and semishaded areas in all climates. Strong, well-rooted, 1-yr. plants: \$3.75 per 100; \$35.00 per 1000; \$32.50 per 1000 for 5000 or more in one shipment. Available for prompt shipment—late March through November. Order now for your spring requirements.

PEEKSKILL NURSERY

SHRUB OAK, N. Y.



## CHOICE NURSERY STOCK SURPLUS LIST

	Per 100
25 Acer Ginnala, 2-yr., x.....	\$ 50.00
6 Acer Griseum, 3 ft. (\$8.00 each)	
200 Andromeda Japonica, 12 to 15 ins.....	150.00
100 Azalea Kaempferi, 4-yr., x.....	75.00
50 Azalea M. Christopher Wren, 3-yr. (Like Louisa Hunne- well).....	250.00
50 Azalea Mollis Dr. Oosthoek, 12 ins. (\$2.00 each)	
100 Azalea Pontica, 4-yr., x.....	150.00
25 Azalea Rosaeiflora, 12 to 15 ins.....	350.00
50 Azalea Sang de Gentbrugge, 3-yr.....	250.00
100 Azalea Schlappenbach, 3-yr., x.....	65.00
25 Azalea, Ward's Ruby, 10 to 12 ins.....	300.00
25 Betula Pendula Laciniata, 8 to 10 ins.....	600.00
40 Berberis Verruculosa, 12 to 15 ins.....	350.00
500 Buxus Microphylla Koreana, 2-yr., x.....	50.00
50 Chamaecyparis C. Corall- formis, 1-yr. grafts.....	75.00
50 Cotoneaster Wardi, 1-yr. grafts.....	60.00
40 Maple Crimson King, 7 to 8 ft.....	550.00
10 Euonymus Alatus, 1½ to 2 ft. (\$1.50 each)	
100 Euonymus Alatus Compactus, 2-yr., x.....	50.00
50 Euonymus Alatus Compactus, 15 to 18 ins.....	125.00
1000 Euonymus Coloratus, 1-yr., cuttings.....	20.00
10 Euonymus Europaeus, 3 to 4 ft.....	75.00
200 Euonymus Radicans Variegata, 3-yr.....	75.00
20 Hydrangea Serrata Acutinata, 2 to 3 ft.....	250.00
50 Rhus Cotinus Rubrifolium, 18 to 24 ins.....	150.00
50 Syringa Microphylla Superba, 15 to 24 ins.....	150.00
50 Juniperus Sargentii, 1-yr. grafts.....	90.00
100 Koeleruteria, 2 to 3 ft.....	100.00
50 Fagus Sylvatica Tricolor, 2 to 3 ft.....	400.00
100 Forsythia Lynwood Gold, 2 to 3 ft.....	120.00
25 Magnolia Macrophylla, 2 to 3 ft.....	250.00
100 Mahonia Aquifolium, 3-yr., x.....	60.00
90 Mahonia Aquifolium, 18 to 24 ins.....	400.00
100 Mahonia Nervosa, 1-yr., x.....	35.00
100 Blue Spruce (hand-picked seed), 3-yr.....	25.00
50 Magnolia Lennel Alba, 1-yr., grafts.....	150.00
25 Lyrodium Palmatum (Climb. Fern), clumps (\$1.00 each)	
50 Cornus Florida, 2 to 3 ft.....	100.00
25 Cladastis Lutes, 3-yr., x.....	50.00
25 Hex Serrata, 2 to 3 ft.....	150.00
50 Sorbus Aucuparia, 3 to 4 ft.....	50.00
40 Cryptomeria, 1-yr. grafts.....	100.00
25 Indigofera Decora, 3-yr., x.....	75.00
25 Franklinia, 2 to 3 ft.....	250.00
25 Flow. Raspberry, 3 to 4 ft.....	100.00
25 Ginkgo, 10 to 12 ft. (\$6.00 each)	
25 Paulownia Imperialis, 5 to 6 ft. whips (\$4.00 each)	
100 Philadelphus Burfordensis, 1-yr.....	100.00
100 Picea Omorika, 2-yr.....	25.00
20 Prunus Serrulata Kwanzan, 6 to 8 ft.....	600.00
50 Hawthorn, Paul's Scarlet, 7 to 8 ft.....	600.00
10 Hawthorn, White Double, 7 to 8 ft.....	600.00
10 Viburnum Americanum, 2 to 3 ft. (\$1.00 each)	
50 Viburnum Opulus Nana, 2-yr., x.....	75.00

Cash with order. 50 at 100 rate.

**BRIMFIELD GARDENS NURSERY**  
245 Brimfield Road  
WETHERSFIELD, CONN.

## Trees, Evergreens, Shrubs Fruit Trees

Write for Our Wholesale Trade List  
**W. - T. Smith Corporation.**  
Telephone 2689 GENEVA, N. Y.

Nurserymen, well aware of this fact, has developed an excellent code for grading nursery stock. The nurserymen members of the Holly Society of America might well emulate this organization's standards, Dr. Gartner suggested. This should include proper labeling as to eventual size, proper habitat, hardiness and the like.

Individuals who have been "taken in" by unscrupulous nurserymen or misleading advertisements should complain, and loudly so, to their local newspapers. So should the local nurserymen.

Dr. Gartner felt that many nurserymen are at fault for some of the improprieties of their profession. They should set honorable standards and then maintain them. They owe it to themselves, he concluded, to grow good plants, label them well and be strictly honest and honorable in all their dealings. This will be their best publicity.

Following Dr. Gartner's talk the group adjourned to the Carolina Inn, where they enjoyed an excellent luncheon.

### Holly Trail

After the luncheon, Francis J. LeClair conducted a tour of the University of North Carolina campus. Mr. LeClair told of his hopes in developing a 7-mile holly trail in and about the university campus. Here he hopes to have as many holly species as possible, with their varieties, growing as specimen plants, windbreaks, screens and hedges. During the tour he showed many fine specimen hollies. Of special interest was a 4-foot-high hedge of beautifully berried Burford's holly about 100 yards long. Many attractive hedges of the Japanese varieties were also seen.

Mr. LeClair was complimented on the many interesting ways he was using holly on the campus of the University of North Carolina. His work should be greatly enjoyed by thousands of students and campus visitors in the future.

After the tour was completed, J. T. Dunnegan, owner of the Durham Plant & Nursery, took two carloads of society members to the Chesterfield cigarette factory at nearby Durham, N. C. Here the visitors were amazed to see this large factory beautifully landscaped, largely with hollies. The plants were growing under hot and adverse city conditions and the grounds were immaculate.

As the group was studying, enjoying and talking about these un-

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Heavy-rooted cuttings  
Well-established potted  
and bed-grown liners.

See our classified ad  
under Evergreens or write  
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## ORNAMENTAL EVERGREENS

## Trees & Shrubs

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P. O. Huntington Station, N. Y.

## THUJA OCCIDENTALIS COMPACTA ERECTA

(NEW)

We offer this new variety in  
rooted cuttings; also estab-  
lished stock from 2¼-in. pots.

Write for descriptive folder in  
color.

**THE WESTMINSTER NURSERIES**  
WESTMINSTER, MD.

## DEL-MAR-VA NURSERIES

Growers of Quality  
Taxus, Ilex and other Ornamentals.  
Ask for list.  
**DEL-MAR-VA NURSERIES**  
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## EVERGREENS

Seedlings and Transplants  
For Spring, 1953, Planting.  
Write for Price List and Planting Guide.  
**CLEARFIELD BITUMINOUS COAL CORP.**  
Department of Forests  
INDIANA, INDIANA CO., PA.

## PRIVET and BERBERIS

Splendid Stock

Write for Special Quotations  
**LESTER C. LOVETT**

MILFORD

DELAWARE



usual plantings, two persons from town stopped them, joined in their conversations, and told them how they, too, enjoyed the hollies around this factory.

Later the group visited the nursery of Mr. Dunneagan, near Durham, N. C. This proved to be a most pleasant and profitable venture.

### Clarendon Gardens

The following day the group met at Clarendon Gardens. Here, F. W. Howe served as host to a delightful buffet luncheon. The afternoon was spent strolling about the spacious grounds in the gardens, gazing in amazement at the many beautiful hollies growing there.

Clarendon Gardens, "North Carolina's newest claim to fame," lie about a mile from Pinchurst, on Linden road. If Clarendon is a man-made garden—and it is—only extra close scrutiny will reveal that fact. So skillfully has man added to nature that one must marvel at the imagination that brought out this jewel against a background of nature's own, wild, rugged beauty.

The thousands of blooming camellias, azaleas, dogwoods and other flowering shrubs border a 5-acre lake.

Clarendon Gardens are not only for the person who wishes to thrill to their beauty. The gardens are also a nursery engaged in growing the largest variety of holly trees in the United States. The Holly Society of America says that this is one of the largest exhibits of holly in the country. Over 185 varieties are to be seen, with thousands of trees growing about the gardens. Propagation and cultivation of all nursery stock is under the supervision of Frank Brunton, an experienced and well-known horticulturist.

This November, Clarendon Gardens will be opened to the public. Those who appreciate—and who does not—the soul-satisfying beauty of flowers and trees, will want to avail themselves of this opportunity to visit the gardens.

November at the gardens will find thousands of chrysanthemums and sasanqua camellias in bloom, together with the red and orange berries of the thousands of holly trees, and many other broad-leaved evergreens. The wide variety of plantings will capture the interest of all lovers of nature. In April the azaleas and camellias in bloom will be the signal for a return visit to view the unmatched beauty possessed by these exotic flowering shrubs.

## GUARANTEED-TO-LIVE TRANSPLANTED EVERGREENS

	Per 1000
American Arborvitae, 4-yr. transplants, (2-2), 4 to 8 in.	\$55.00
American Arborvitae, 5-yr. transplants, (2-3), 8 to 15 in.	65.00
Austrian Pine, 4-yr. transplants, (2-2), 5 to 10 in.	60.00
Banks Pine, 3-yr. transplants, (2-1), 5 to 10 in.	35.00
Banks Pine, 4-yr. transplants, (2-2), 12 to 20 in.	40.00
Japanese Black Pine, 3-yr. transplants, (2-1), 3 to 6 in.	40.00
Mugho Pine, 4-yr. transplants, (2-2), 3 to 6 in.	50.00
Norway (Red) Pine, 3-yr. transplants, (2-1), 3 to 5 in.	50.00
Norway (Red) Pine, 4-yr. transplants, (2-2), 5 to 8 in.	60.00
Scotch Pine, 3-yr. transplants, (2-1), 3 to 8 in.	55.00
White Pine, 3-yr. transplants, (2-1), 3 to 5 in.	45.00
Norway Spruce, 3-yr. transplants, (2-1), 2 to 5 in.	50.00
White Spruce, 3-yr. transplants, (2-1), 2 to 5 in.	45.00

### TERMS

Cash with order; or one-half cash with order, balance C.O.D. All prices F.O.B. Fryeburg, Maine, net; no discounts. 250 trees of any one kind and size at the 1000 rate. For less than 250 of one kind, ask for retail price list. No extra charge for boxes or packing.

We believe that we grow and ship more transplanted evergreen trees than any other privately owned nursery in the country. Several other varieties of transplants and seedlings available. Send for complete list of stock.

### OUR GUARANTEE

90 per cent of all transplants sold at regular wholesale prices, as quoted in this list, are guaranteed to live. Replacements will be made free of charge for any losses in excess of 10 per cent of the number purchased, provided we are notified of such losses by October 1, 1953.



WESTERN MAINE FOREST NURSERY CO.

DEPT. AN-333

FRYEBURG, MAINE

## QUEEN O' the LAKES (Dark Velvety Red)



and 30 other fragrant  
**SUB-ZERO**

### HYBRID TEAS

Large and beautiful as any. Easy to grow; long to live. Bloom more; more constantly. Save replacement expense.

Tree Roses topped with all varieties can survive 15 degrees below zero without protection.

also 20

Yellow and Orange Climbers  
Write for trade prices to

**BROWNELL ROSES**

LITTLE COMPTON, R. I.

### ILEX CRENATA CONVEXA

(Ilex Bullata)

Owing to our unusual success in propagating this desirable item, we offer it at a very low price. Over 150,000 in stock. It is a very choice, very hardy, low-growing evergreen with shiny, dark green, convex, boxwood-like leaves. Grows fast into money, up to 2 feet, and there slows down. Ultimate size 3 feet high and 4 feet wide. Easier to grow than Yew and can be used in sun or shade. Sells on sight. Grows very dense and contrasts well with other evergreens. Makes the perfect low hedge.

	Each
6 to 8 ins., 2-yr., T.	15c
8 to 10 ins., 2-yr., T.	20c

### Pieris Japonica

	Each
4 to 6 ins., T.	15c
6 to 8 ins., T.	20c

SEND FOR LIST OF  
UNUSUAL PLANTS

**ALANWOLD NURSERY**

NESHAMINY, Bucks Co., PA.

### HARDY NATIVE EVERGREENS

Collected Stock

Canadian Hemlock, American  
Arborvitae, Balsam Fir

	Per 100	Per 1000
2 to 4 ins., sdgls.	\$1.00	\$ 5.00
3 to 6 ins., sdgls.	2.00	10.00
6 to 9 ins., sdgls.	3.00	20.00
9 to 12 ins., sdgls.	7.00	45.00
12 to 18 ins., sdgls.	9.00	70.00

All first-quality stock, well-rooted and packed in sphagnum moss.

Send for trade list.

Cash, please.

**R. M. COLE**

Box 37 CHARLOTTE, VT.



# LINING-OUT STOCK

**Write for our illustrated list**

	Per 100	Per 1000	Per 10,000
Colorado Blue Spruce, 3-2, 4 to 6 ins...	\$10.00	\$80.00	.....
Colorado Blue Spruce, 3-0, 4 to 6 ins...	6.00	32.00	\$300.00
Colorado Blue Spruce, 3-0, 2 to 4 ins...	4.00	20.00	180.00
White Pine, 2-3, 6 to 12 ins.....	15.00	.....	.....
Norway Pine, 2-0, 2 to 4 ins.....	4.00	18.00	.....
Banks Pine, 3-0, 8 to 16 ins.....	6.00	25.00	.....
White Birch, 2-2, 10 to 18 ins.....	10.00	.....	.....
White Birch, 2-0, 8 to 16 ins.....	7.50	40.00	.....

## RIGA SCOTCH PINE

Best type for growing Christmas trees.

	Per 100	Per 1000	Per 1000	Per 1000
			in 10,000	in 100,000
			lots	lots
Scotch Pine, 2-0, 3 1/2 to 8 ins...	\$6.00	\$25.00	\$23.50	\$22.00
Scotch Pine, 2-0, 2 to 3 1/2 ins...	4.00	16.00	15.00	14.00

Samples on request in digging season.

TERMS: Cash with order please; or 25 per cent deposit, balance before shipment. 25 at 100 rate, 250 at 1000 rate; all seedlings in multiples of 50, all transplants in multiples of 10.

Minimum order \$10.00. Packing at materials cost; charges billed when shipped.

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Telephone 123 or 732

HARBOR SPRINGS, MICH.

## CHINESE CHESTNUTS

Hemming strain of heavy-bearing trees.

	Each Per 10	Each Per 100	Each Per 1000
12 to 18 ins.....	\$0.25	\$0.22 1/2	\$0.20
18 to 24 ins.....	.35	.32 1/2	.30
2 to 3 ft.....	.60	.55	.50
3 to 4 ft.....		SOLD OUT	

**EASTERN SHORE NURSERIES, INC.**  
EASTON, MD.



We never talk about the other fellow's low prices; he knows what his merchandise is worth. We grow good evergreen liners. Ask for our wholesale list.

**The STEDMAN NURSERIES**  
NEWFANE, N. Y.



Wholesale growers of the best  
Ornamental Evergreens  
Deciduous Trees  
Shrubs and Roses

Write for our current trade list.  
**THE KALLAY BROTHERS CO.**  
Painesville, Ohio

## ORNAMENTALS TREES SHRUBS EVERGREENS

Wholesale growers of a  
general assortment for  
the best landscape plantings.

**BRYANT'S NURSERIES**  
Princeton, Illinois

## Coming Events

### MEETING CALENDAR

April 23 and 24, spring meeting, Holly Society of America, University of Maryland, College Park, Md.

June 26 to 28, joint summer meeting, Illinois State Nurserymen's Association and the Wisconsin Nurserymen's Association, Deer Trail Lodge, Heafford Junction, Wis.

August 16 to 18, Southern Nurserymen's Association, Biltmore hotel, Atlanta, Ga.

October 6 and 7, 12th short course on roadside development, Ohio department of highways, Columbus.

### SPRING HOLLY MEETING

The Holly Society of America will hold its spring meeting at the University of Maryland, College Park, Md., April 23 and 24, and has planned an interesting program for the event.

On the afternoon of April 23, the group will travel by bus to Mount Vernon. That evening, the members will attend an old-fashioned church supper at which members of the United States National Arboretum advisory board will be guests of the society. On Friday, April 24, a morning technical session will be held and at noon, after the luncheon, there will be a ceremony to mark the dispatch of holly trees to the Forest of Peace at Tokyo, Japan. A non-technical session which should be of interest to ladies and gentlemen alike will conclude the meeting.

### JOINT SUMMER MEETING

The Wisconsin Nurserymen's Association was so pleased with the site of its 1952 summer meeting, Deer Trail Lodge, Heafford Junction, Wis., that the group has made plans to revisit the spot this next summer from June 26 to 28 and has hopes of showing off some of the state's scenic advantages to Illinois nurserymen at the same time, for at the invitation of the Wisconsin group, the Illinois State Nurserymen's Association will share the event, as it did last year.

Officials of the lodge have promised the two associations exclusive use of the property during these three days. Because the meeting will be held just ahead of the opening of the summer resort season, the associations will receive special rates; lodging, meals and sports facilities are all included in the rate of \$9 a day for adults, \$4.50 a day for children under eight years old.

Reservations for the trip should



# ROSES

● No. 1 1/2 grade available for immediate or later delivery at 20% discount from prices listed. Prices F.O.B. Mentor, Ohio. 6 of one variety at dozen rate, 25 of one variety at 100 rate.

Limited quantity of No. 1 grade available at prices listed below.

YELLOW HYBRID TEAS		Each	Per doz.	Per 100
Butterscotch (Pat. 613)		\$1.15	\$12.00	\$ 80.00
Eclipse (Pat. 172)		1.15	12.00	80.00
Fred Howard (Pat. 1006)		1.60	16.80	120.00
Mrs. E. P. Thom.		.85	9.50	70.00
Sutter's Gold (Pat. 885)		1.40	15.00	105.00
PINK HYBRID TEAS				
Charlotte Armstrong (Pat. 455)		1.25	13.20	95.00
Douglas MacArthur (Pat. 581)		1.15	12.00	80.00
Edith Willkie (Pat. 500)		1.15	12.00	80.00
Hedda Hopper (Pat. 1047)		1.25	13.20	95.00
Helen Traubel (Pat. 1028)		1.75	18.00	130.00
Mission Bells (Pat. 923)		1.40	15.00	105.00
Santa Anita (Pat. 539)		1.00	10.80	70.00
Tallyho (Pat. 828)		1.25	13.20	95.00
Tom Brennehan (Pat. 986)		1.25	13.20	95.00
RED HYBRID TEAS				
Crimson Glory (Pat. 105)		1.15	12.00	80.00
Grenoble		.85	9.50	70.00
Fandango (Pat. 894)		1.25	13.20	95.00
Heart's Desire (Pat. 501)		1.15	12.00	80.00
Mirandy (Pat. 632)		1.25	13.20	95.00
New Yorker (Pat. 823)		1.25	13.20	95.00
Nocturne (Pat. 713)		1.25	13.20	95.00
McGredy's Scarlet		.85	9.50	70.00
Will Rogers (Pat. 256)		1.00	10.80	70.00
WHITE HYBRID TEAS				
Kaiserin Augusta Victoria		.85	9.50	70.00
Sleigh Bells (Pat. 1004)		1.25	13.20	95.00

BICOLOR HYBRID TEAS		Each	Per doz.	Per 100
Countess Vandal		\$0.85	\$ 9.50	\$ 70.00
Forty-niner (Pat. 792)		1.40	15.00	105.00
Hill Top (Pat. 525)		1.15	12.00	80.00
CLIMBERS—RED				
Blaze		1.00	10.80	70.00
Paul's Scarlet Climber		1.00	10.80	70.00
CLIMBERS—YELLOW				
Gold Rush		1.15	12.00	80.00
Peace (Pat. 932)		1.60	16.80	120.00
CLIMBERS—PINK				
Dream Girl (Pat. 643)		1.60	16.80	120.00
Inspiration		1.60	16.80	120.00
Meda (Pat. 518)		1.25	13.20	95.00
FLORIBUNDAS—PINK AND ROSE				
Else Poulsen		.85	9.50	70.00
Glorious (Pat. 879)		1.00	10.80	70.00
Pink Rosette (Pat. 902)		1.15	12.00	80.00
FLORIBUNDAS—RED AND CRIMSON				
Crimson Rosette (Pat. 901)		1.15	12.00	80.00
Improved Lafayette		.85	9.50	70.00
Red Ripples		1.00	10.80	70.00
FLORIBUNDAS—WHITE				
White Finch		.85	9.50	70.00
POLYANTHAS				
Imp. Cecile Brunner (Pat. 851)		1.00	10.80	70.00
Margo Koster		.85	9.50	70.00
SHRUB ROSES				
Lipstick		1.15	12.00	80.00
Ming Toy (Pat. 900)		1.00	10.80	70.00

## THE WAYSIDE GARDENS CO.

Dept. A

Mentor, Ohio

be made immediately, the capacity of the lodge itself is about 150 persons, but there are a number of good motels nearby to handle any overflow.

### SOUTHERN CONVENTION

The executive committee of the Southern Nurserymen's Association has set the date of the association's next annual convention for August 16 to 18, at Atlanta, Ga. The convention headquarters will be at the Biltmore hotel.

### OHIO ROAD COURSE PLANS

The Ohio department of highways has decided, after analyzing the results of a questionnaire distributed to interested parties, to hold the 12th short course on roadside development at Columbus, O., on October 6 and 7 instead of in April as was previously done. Of those polled, 73.7 per cent wanted a fall meeting and, of this group, 64 per cent wanted the meeting held in October.

After the meetings, an inspection trip will follow, on October 8 and 9, into eastern Ohio, in which the participants will be guests of the Muskingum watershed conservancy district. A visit is also planned to a strip coal mine.

## LANDSCAPE MATERIAL

### Rhododendron Maximum Kalmia Latifolia

Pruned, compact, healthy green foliage, B&B, with exceptionally good balls. F.O.B. Boone, North Carolina. Truck or car lots, February and March.

15 to 18 ins.	\$1.25 (retail value \$3.50 to \$4.50)
18 to 24 ins.	1.65 (retail value 5.00 to 6.50)
24 to 30 ins.	2.45 (retail value 7.00 to 8.00)

Above available from Bellville, Ohio, March and April.

15 to 18 ins.	\$1.50
18 to 24 ins.	2.00
24 to 30 ins.	3.25

### Pinus Resinosa (Red Pine)

Pruned, exceptionally fine, heavy specimens; wide, compact. About 5000. First digging from this block.

4 1/2 to 5 ft., B&B	\$5.50
Cornus Florida	
5 to 6 ft., B&B	\$3.50 (25% with fl. buds)
6 to 7 ft., B&B	4.50 (75% with fl. buds)
7 to 8 ft., B&B	5.50 (100% with fl. buds)
8 to 9 ft., B&B	6.50 (100% with fl. buds)
9 to 10 ft., B&B	7.50 (100% with fl. buds)

Above available after March 1.

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### COTONEASTERS

Specimen Landscape Stock  
Heavy and well-branched

Per 10 Per 100

Cotoneaster Divericata, B&B  
3-yr., T., 1 1/2 to 2 1/2 ins. \$20.00 \$175.00  
3-yr., T., 2 to 3 ft. 25.00 225.00

#### Lining-Out Stock

1-yr., T., 15 to 18 ins.  
BR 35.00

Order now for spring delivery.

FLORAL GARDENS EATON, OHIO

### HEMLOCK

Rhododendron — Kalmia  
Azalea

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## SPECIMEN LANDSCAPE MATERIALS

	Each
<b>Taxus Cuspidata</b>	
500 18 to 24 ins.	\$ 4.50
500 24 to 30 ins.	6.50
50 4 to 5 ft.	28.50
<b>Taxus Hatfieldi, Upright</b>	
500 18 to 24 ins.	4.50
200 24 to 30 ins.	6.50
50 4 to 5 ft.	28.50
<b>Taxus Browni</b>	
300 18 to 24 ins.	4.50
100 24 to 30 ins.	6.50
<b>Taxus Hicksi</b>	
250 18 to 24 ins.	4.50
100 24 to 30 ins.	6.50
50 30 to 36 ins.	8.50
<b>Juniperus Canadensis</b>	
200 4 to 5 ft.	5.50
150 5 to 6 ft.	6.50
<b>Juniperus Glauca</b>	
100 4 to 5 ft.	5.50
<b>Magnolia Grandiflora</b>	
200 3 to 4 ft.	9.00
200 4 to 5 ft.	12.50
50 5 to 6 ft.	16.00
<b>White Pine</b>	
25 10 to 12 ft.	50.00

F.O.B. nursery. Truck or car load lots only.

40 Chinese Elm, 2 1/2 to 3 -in. cal.  
 130 Chinese Elm, 2 to 2 1/2-in. cal.  
 130 Chinese Elm, 1 1/2 to 2 -in. cal.  
 60 Blue Damson Plum,  
 2-yr., 11/16-in. cal.  
 45 Blue Damson Plum,  
 2-yr., 9/16-in. cal.  
 29 Blue Damson Plum,  
 2-yr., 7/16-in. cal.  
 2070 Montmorency Cherry,  
 1-yr., 18 to 24 ins.  
 840 Montmorency Cherry,  
 1-yr., 12 to 18 ins.  
 25,000 Cumberland Raspberry Tips  
 Mary Washington Asparagus,  
 1-yr., No. 1  
 Mahaleb Cherry, No. 2,  
 2/16 to 3/16-in. cal.  
 Mahaleb Cherry, No. 3,  
 just under 2/16-in. cal.  
**EVERGREENS, XXX, B&B**  
 Juniperus Chinensis Pfitzeriana, 24 to 30  
 ins., 18 to 24 ins., 15 to 18 ins.  
 Juniperus Sabina, 24 to 30 ins., 18 to 24  
 ins., 15 to 18 ins.  
 Evergreens and shade trees to be picked  
 up at nursery. Other stock can be  
 shipped.  
 Send number wanted and we will  
 promptly quote.  
**MICHIGAN FRUIT GROWERS NURSERIES**  
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## ROSA MULTIFLORA JAPONICA

Seedlings of vigorous, thorny, upright  
 type for living fence. Excellent plants.  
 Tops cut back to about 10 ins. when  
 graded.

	Per 1000
18 to 24 ins.	5 to 10 mm. \$40.00
15 to 18 ins.	4 to 5 mm. 30.00
10 to 15 ins.	2 to 4 mm. 20.00

Prices include packing, F.O.B. Hundred,  
 W. Va. Write for special quotations on  
 large quantities.

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 Multiflora—Our Specialty

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Send lists on liners, bedders, etc.

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## New Hampshire Group Convenes

By L. A. Dougherty

Agriculture Extension Service, Durham, N. H.

Nurserymen met with florists, seedsmen and box-plant growers on the campus of the University of New Hampshire, Durham, February 18. The meeting was held in Putnam hall, the new agriculture building, which is adjacent to the university greenhouses, and over 100 persons were present.

While the meeting was open to all interested persons it was in part to complete the organization of the New Hampshire Plant Growers Association. Over 60 memberships were taken in the organization and the first regular officers were elected. The president and three vice-presidents are to represent all interest groups, namely, nurserymen, florists, box-plant growers and seedsmen.

Ray Gelineau, Landscape Clinic Nursery, Dover, N. H., was elected president. J. Lincoln Pearson, Pearson Nursery, Quincy, N. H.; Glendon Emerson, a box-plant grower at Westville, N. H., and William P. Holmberg, of Studley Flower Gardens, Inc., Rochester, N. H., were elected as the three vice-presidents. John A. Lehy, Meader's Greenhouses, Dover, N. H., was elected treasurer, and Mrs. Kathryn H. Dougherty, Pine-Croft Nurseries, Exeter, N. H., was made secretary.

## Discuss Work for Committees

After the election of officers, discussion centered around the kinds of committees that should be set up and the work they should do. It was felt that now that the organization was officially under way, membership should and could be considerably increased. Much interest was shown in publicity and some felt an annual show should be considered or at least some formal cooperation with garden club shows should be undertaken. Interest was also shown in a new directory and some exchange of information about stock for sale.

Before the opening of the meeting at 10 a. m., many persons looked through the university greenhouses to observe the work in plant breeding.

The meeting opened with a panel about the opportunities for development of the industry. J. Lincoln Pearson, chairman of the morning meeting, called first on Dr. A. F. Yeager, head of the university's horticulture department and nationally



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**AUSTRIAN PINE — \$35.00 per 1000**

4 to 6 ins., 2-yr. seedlings

**SCOTCH PINE (Riga Var.) — \$30.00 per 1000**

4 to 6 ins., 2-yr. seedlings

**RED PINE — \$20.00 per 1000**

4 to 6 ins., 2-yr. seedlings

**RED PINE — \$65.00 per 1000**

12 to 16 ins., 4-yr. transplants

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**PORT EDWARDS, WISCONSIN**

known as a plant breeder. Dr. Yeager stressed the importance of keeping informed of the new varieties being released and tested, and the need to propagate them and make them available to the public and to other nurseries. He said that New Hampshire had one of the most extensive raspberry breeding projects in the country. It was his opinion that local nurserymen should have propagated the Durham ever-bearing raspberry, which was released in 1947, as it is now in such demand that there is not nearly enough stock to meet the demand. The Durham is distinguished by its early maturity and heavy yields on new canes.

Dr. Yeager also mentioned the work in peach breeding in which hybrids resulting from crosses of Caucasian peaches with standard varieties showed considerably greater hardiness. They have borne every year while others have frequently failed. Some other new products just released are the Scarlet Beauty shell bean, Double-rich tomato and the Blaze strawberry. Dr. Yeager said that he has a great many filbert and hazelnut seedlings under test. Earliness, hardiness and size are factors of special importance. He also stressed the need for more available

## **RIGA SCOTCH PINE**

**Best type for growing Christmas trees.**

**We can still accept orders  
for Scotch Pine seedlings.**

See our ad on page 46

## **MATTHEWS NURSERY**

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HARBOR SPRINGS, MICH.

## *Announcement*

NAPERVILLE NURSERIES, INC., Naperville, Illinois, will terminate its business at the close of the Spring, 1953, digging season. All nursery stock and equipment must be sold. Write or phone for list of special offerings.

**NAPERVILLE NURSERIES, INC.**  
Naperville, Ill.



## NURSERY-GROWN LINERS

### Seedlings

<b>Acer Tataricum</b>	
1000 9 to 12 ins.	\$0.07
1000 12 to 15 ins.	.09
<b>Chaenomeles Lagenaria</b>	
3000 6 to 9 ins.	.05
2500 9 to 12 ins.	.07
800 12 to 15 ins.	.08
<b>Cotoneaster Divaricata</b>	
300 2-yr., 6 to 9 ins.	.10
300 2-yr., 9 to 12 ins.	.15
<b>Cotoneaster Racemiflora Soongarica</b>	
300 2-yr., 6 to 9 ins.	.15
(Profuse red berries, medium-size shrub, Wilson's first choice)	
<b>Kolkwitzia Amabilis</b>	
800 3 to 6 ins.	.08
600 6 to 9 ins.	.10
<b>Rhamnus Saxatilis</b> (Similar but superior to <i>Rhamnus Frangula</i> )	
900 9 to 12 ins.	.05
600 12 to 15 ins.	.06
<b>Viburnum Lentana</b>	
1000 6 to 9 ins.	.08
1000 9 to 12 ins.	.09
<b>Softwood Cuttings in Beds</b> <b>Exceptionally Well-rooted</b>	
1000 <i>Deutzia Gracilis</i> , 1-yr., bedded	.09
1000 <i>Euonymus Alatus Compactus</i>	.10
1500 <i>Euonymus Coloratus</i>	.12
800 <i>Euonymus Patens</i>	.09
1000 <i>Euonymus Vegetus</i>	.16
1000 <i>Spiraea Anthony Waterer</i>	.08

### ILGENFRITZ NURSERIES, INC.

The Monroe Nursery  
MONROE, MICH.

## HARDY PLANTS Bulbs and Shrubs

"America's Finest"

Write for Trade List

*Springbrook Gardens*

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## HYDRANGEA P. G. 1-yr. CONCORD GRAPES

Thorne Brewster

**WILLOWBEND NURSERY**

PERRY, OHIO

stocks of virus-free strawberry plants.

Prof. E. M. Meader, who works with Dr. Yeager on plant breeding work at the university, described the work on blight-resistant chestnuts. He has used stocks he brought back from Korea in making a number of crosses. Some of these planted alongside so-called blight-resistant varieties have shown greater resistance to blight. He also mentioned the lilac, strawberry and chrysanthemum-breeding work under way. Work on an early Honey Dew melon is now under way.

Prof. E. B. Risley told of the work being done on gladiolus breeding and on hardiness of roses. He is now making a collection of the hardier kinds for observation and for breeding work.

Prof. J. R. Hepler discussed the possibilities in seed production and spoke about the suitability for foundation stock of some of the new varieties. There are special problems connected with small-scale production, especially where it involves specialized equipment for handling. The New Hampshire Midget watermelon and Granite State cantaloupe are now widely known and the former also has been grown in Florida and other southern states. This watermelon is of particular interest in the north where earliness is important.

Harold Eastman, Western Maine Forest Nursery, Fryeburg, Me., described his operations and the opportunities in his area for producing evergreens. His company does a mail-order business and ships stock throughout the United States. He said that small stocks were of special interest with the present high transportation rates. The firm sells a great many evergreens in 3, 4 and 5-year transplants, he said, and also guarantees all trees sold by retail mail orders and about 80 per cent of the trees sold by wholesale orders.

Dr. A. E. Rich, university plant pathologist, gave a talk on the use of soil fumigants, covering the different types, their advantages and disadvantages. Stanley French, of Stratham, discussed his electric soil sterilizer.

### Afternoon Discussion Periods

Each group had a discussion period in the afternoon. Ray Gelineau was chairman of the nursery group. G. Harold Thurlow, of Cherry Hill Nurseries, West Newberry, Mass., assisted in the discussion and related some of his experiences in handling lilac grafts. Dr. James G. Conklin, entomologist, made some comments on insect control and plant inspec-

## B&B EVERGREENS

35 <i>Taxus Andersoni</i> , 15 to 18 ins.	\$3.00
20 <i>Taxus Andersoni</i> , 18 to 24 ins.	3.75
180 <i>Taxus Hicksi</i> , 15 to 18 ins.	3.00
130 <i>Taxus Hicksi</i> , 18 to 24 ins.	3.75

### JUNIPERS

100 <i>Irish</i> , 30 to 36 ins.	\$2.00
100 <i>Irish</i> , 3 to 4 ft.	2.50
150 <i>Pfitzer</i> , 18 to 24 ins.	3.25
80 <i>Pfitzer</i> , 24 to 30 ins.	3.75
35 <i>Pfitzer</i> , 30 to 36 ins.	4.50
125 <i>Blue Pfitzer</i> , 15 to 18 ins.	2.50
100 <i>Compact Pfitzer</i> , 15 to 18 ins.	2.50
140 <i>Glaucia Hets Pfitzer</i> , 18 to 24 ins.	3.00
30 <i>Glaucia Hets Pfitzer</i> , 24 to 30 ins.	3.75
45 <i>Von Ehron Pfitzer</i> , 18 to 24 ins.	2.75
15 <i>Von Ehron Pfitzer</i> , 24 to 30 ins.	3.25
30 <i>Von Ehron Pfitzer</i> , 3 to 4 ft.	4.25

Terms—5% discount when cash accompanies order; 2% discount when paid within 10 days after receiving invoice; net 30 days.

Orders filled in order received. We can arrange for economical truck delivery.

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Evergreen Rooted Cuttings,  
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## WELLER'S PERENNIALS

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Headquarters for  
**HARDY MUMS AND PHLOX**  
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**HENRY, ILLINOIS**  
Growers of General Nursery Stock.  
Visitors Welcome.



tion. Dr. W. W. Smith, blueberry specialist, mentioned the variability of results in rooting blueberry cuttings.

The discussion period for the groups was all too short. Some expressed the desire for future meetings where more time could be given to some of the special problems. The possibility was raised of doing this by holding "schools" or by scheduling tours through the areas where one type of product is grown, such as small fruits, and following the tours with a discussion period.

The new officers are meeting at once to set up working committees. They feel that the organization has made a good start and are optimistic as to its future.

### ENTOMOLOGY REPORT

Greater use of helpful insects, as well as more intensive research concerned with control of destructive pests, is emphasized in the annual report of the bureau of entomology and plant quarantine, United States Department of Agriculture.

In referring to the report, which is for the year ending June 30, 1952, the bureau chief, Avery S. Hoyt, said, "All phases of scientific insect control have a greater place in the lives of each of us than ever before. Making use of better ways of controlling insects, whether they destroy or aid America's ability to produce the food and fiber needed to feed, clothe and house us, becomes more imperative as our population continues to increase."

Among the insects that entomologists are using to benefit man are foliage-feeding beetles, introduced from Australia, that have controlled the noxious Klamath weed on 100,000 acres of California rangeland. The weed crowds out desirable forage grasses and makes ranges and pastures unproductive. The beetles that have taken hold with such good success are being moved into other Pacific Coast areas infested with the Klamath weed.

Cooperation with other countries in mutual protection against the insects and plant diseases has resulted in inauguration of a bureau-supervised inspection service in Holland for flower bulbs produced in that country before their export to the United States.

The annual report details new methods of scientific attack that are being tried out on insects and answers some of the problems that concern the effect of insecticides on the soil, crops and livestock.



Fancy, bright-colored label. Full planting instructions on back of each label. Under normal conditions, plants can be kept on the counter for two weeks without any loss. Can be held longer if watered. Packed 35 to 50 packages per carton, depending on variety.

#### PACKAGED STRAWBERRY PLANTS

Price per package of 25 plants	
Dunlap	\$0.45
Gem Everbearing	.50
Premier	.55
Robinson	.55
Streamliner Everbearing	.75
Superfection Everbearing	.75
Bulk strawberry plant prices upon request.	

#### RASPBERRIES

100 1000	
Cumberland, No. 1, tips.. \$	5.00 \$ 40.00
Latham, 2-yr., trans.	9.00
Latham, 1-yr., No. 1.	7.50 65.00
Logan, No. 1, tips.	5.00 40.00
Willamette, 2-yr., trans.	9.00
Willamette, 1-yr., No. 1.	7.50 65.00

#### BLACKBERRIES

Alfred, 1-yr., No. 1.	5.50 40.00
Ebony King 2-yr., trans.	17.50 150.00
Ebony King, 1-yr., No. 1.	12.00 100.00
Eldorado, 1-yr., No. 1.	5.50 40.00
Lucetta, 2-yr., trans.	7.50
Lucetta, 1-yr., No. 1.	5.00

See ad on page 55 on Asparagus Roots. Many items are sold out or in too small a quantity to list this season.

### KRIEGER'S WHOLESALE NURSERY

Phone: Bridgman 22

BRIDGMAN, MICH.

#### GRAPES

100 1000	
Catawba, 1-yr., No. 1.	\$11.00 \$ 90.00
Concord 2-yr., No. 1.	12.00 100.00
Concord, 1-yr., No. 1.	10.00 80.00
Fredonia, 1-yr., No. 1.	11.00 90.00
Van Buren, 2-yr., No. 1.	18.00
Van Buren, 1-yr., No. 1.	12.00

#### HORSE RADISH

Whole Roots	5.50 45.00
4 to 5 ins. Cuttings	3.00 20.00

#### RHUBARB

Victoria, 1/2 to 3/4 ins.	3.00
---------------------------	------

#### BLUEBERRIES

Rubel — Jersey — Rancocas	
10 100	
4-yr., 18 to 24 ins.	\$7.00 \$67.50
3-yr., 12 to 18 ins.	5.00 47.50
2-yr., 9 to 12 ins.	3.50 32.50

## SEEDLING CHRISTMAS TREES

SCOTCH PINE — the fastest grower.

2-0, 2 to 6 ins., \$20.00 per 1000

AUSTRIAN PINE — the quality tree.

2-0, 2 to 6 ins., \$25.00 per 1000

Cash with order, free packing—or 25% cash, balance C.O.D.

10% discount on 50,000 or more.

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## THE LAKETON NURSERIES, Laketon, Ind.

Quality Nursery Stock since 1880



**NORTHERN-GROWN**

Grown, graded and packed to reach you in perfect condition.

3-yr. Seedlings		
	Per 100	Per 1000
<b>Black Hills Spruce</b>		
6 to 8 ins.	\$4.50	\$40.00
4 to 6 ins.	3.50	30.00
<b>Norway Spruce</b>		
6 to 8 ins.	3.50	30.00
4 to 6 ins.	3.00	25.00
<b>Scotch Pine, Riga</b>		
4 to 8 ins.	3.50	25.00

2-yr. Seedlings		
<b>American Arborvitae</b>		
2 to 4 ins.	3.00	25.00
<b>Black Spruce, 2 to 4 ins.</b>	3.00	25.00
<b>Black Hills Spruce,</b>		
2 to 4 ins.	3.00	25.00
<b>Norway Spruce, 2 to 4 ins.</b>	2.50	22.50
<b>Mugho Pine (Certified Tyro-</b>		
<b>lian Seed), 2 to 3 ins.</b>	4.00	35.00
<b>Scotch Pine, Riga,</b>		
2 to 4 ins.	2.50	20.00
<b>Douglas Fir, 2 to 4 ins.</b>	2.50	20.00
<b>Concolor Fir, 2 ins.</b>	4.00	
<b>Platte River Red Cedar,</b>		
no blight,		
8 to 10 ins.	3.00	25.00
6 to 8 ins.	2.00	18.00
4 to 6 ins.	1.75	15.00
1-yr., 2 to 4 ins.		
(Average 3 1/2 ins.)	1.75	12.00
Special price on Red Cedar lots 10 to 100,000.		

<b>Juniperus Communis,</b>		
2 to 4 ins.	3.00	25.00
<b>Juniperus Scopulorum,</b>		
2 to 4 ins.	3.00	25.00

<b>Rooted Cuttings—1-yr. in trans. bed.</b>		
<b>Pyramidal Arborvitae,</b>		
4 to 6 ins.	18.00	150.00
<b>Siberian Arborvitae,</b>		
4 to 6 ins.	18.00	150.00
<b>Globe Arborvitae,</b>		
4 to 6 ins.	15.00	

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BLACKDUCK, MINN.**LINING-OUT and  
FINISHED STOCK**Ask for List**THE  
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**LANSING 15, MICH.****Seedlings and Transplants****NEWPORT NURSERY CO.**  
NEWPORT, MICH.**PHILADELPHUS VIRGINIALIS**

1-yr., R.C.	10c each
2-yr., 12 to 18 ins.	25c each
2-yr., 18 to 24 ins.	35c each

**BALCOM NURSERY** **KOKOMO, IND.****New Jersey Meeting***By Raymond P. Korbobo*

The balmy weather at Atlantic City, N. J., lasted into the second day of the New Jersey Association of Nurserymen's annual winter meeting at the Hotel Chalfonte-Haddon Hall, held on January 29 and 30. The first day of meetings was reported in the March 1 issue of the American Nurseryman.

President William H. Wells opened the day with the introduction of the morning's first speaker, Frank A. Soraci, chief of the bureau of entomology, New Jersey department of agriculture.

**Quarantine Developments**

Mr. Soraci talked about certain new developments in quarantines, stressing that recent happenings important to plant pest officials were his interest and that Dr. White, who was to follow him on the program, would be better able to evaluate developments as they might affect the nursery industry as a whole. He gave a short account of the meeting of the National Plant Board's quarantine committee, which was held at Chicago the past October. He considered it especially significant that the committee members were able to recommend that quarantine action, state and federal, be ended in the case of several important plant pests which had gained a foothold in some sections of the country. Such pests as golden nematode, European chafer and alfalfa weevil received the committee's special consideration. The work done at that session of the committee should prove encouraging and helpful to those states that are engaged in programs for the control of these pests.

Perhaps the most important new development in plant quarantines, and one that should receive the enthusiastic support of the nursery industry, is that the state and federal governments are "counting to 10" these days before quarantine measures are used. Nurserymen are all becoming more and more aware of the work being done in other areas for the control of important pests and more convinced that the way that work can be encouraged and extended is not by throwing restrictive measures on the unfortunate area, but rather by examining the control program to see that every reasonable protection is being afforded under that program. Observers on the outside need to realize

**SPECIMEN EVERGREENS**

4 to 6-yr. transplanted and sheared plants.

50	<b>Juniperus Virginiana</b>
	<b>Glauc.</b> 3 to 5 ft.
400	<b>Canerti</b> , 3 to 5 ft.
50	<b>Keteleeri</b> , 6 to 8 ft.
650	<b>Burki</b> , 3 to 5 ft.
300	<b>Chinensis Columnaris</b> , 4 to 6 ft.
5000	<b>Juniperus Hetzi</b> , 18 to 30 ins.
200	<b>American Arborvitae</b> , 2 to 4 ft.
200	<b>Cornus Florida</b> , 18 to 24 ins.
200	<b>Cornus Florida</b> , 24 to 30 ins.
50,000	<b>Amur River Privet</b> , 18 to 24 ins. and 2 to 3 ft., branched.
100,000	<b>Rosa Multiflora</b> , seedlings.

**BEARING-AGE APPLE TREES**

4 and 5-yr.-old.

Red Rome Beauty, Grimes Golden, McIntosh, Anoka, Black Winesap, Turley, Double Red, Jonathan, Double Red Delicious, Yellow Delicious, Wealthy.

	Each	Each
	per 10	per 100
11/16 to 1-in. cal.	\$0.50	\$0.40
1 to 1 1/4-in. cal.	1.00	.75
1 1/4 to 1 1/2-in. cal.	1.50	1.25

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Per 100 Per 1000

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3 to 6 ins., TT	\$15.00	\$125.00
<b>Azalea Mollis</b>		
3 to 6 ins., TT	15.00	125.00
10 to 12 ins., TTT,		
unbudded	40.00	
10 to 12 ins., TTT,		
unbudded, extra		
heavy	60.00	
<b>Azalea Pontica</b>		
3 to 6 ins., TT	15.00	125.00
<b>Euonymus Coloratus Erecta</b>		
10 to 12 ins.	22.50	
<b>Euonymus Radicans Erecta</b>		
10 to 12 ins.	22.50	

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that additional measures short of absolute embargo would probably yield little benefit and would, instead, serve only to complicate the problems of the enforcement agencies and the affected segments of the nursery industry.

### State Can Lead Quarantine Policy

Mr. Soraci stated that, in view of the fact that Bert Flemer had been appointed chairman of the quarantine committee of the New Jersey Association of Nurserymen and that the Eastern Plant Board is presently represented on the National Plant Board by himself as well as Dr. Conklin, of New Hampshire, it is evident that the state of New Jersey is in a good position to provide leadership in the development of quarantine policy. He suggested that it would be well for any of the New Jersey nurserymen who might have ideas on the subject to pass them on either to himself, Mr. Flemer or Dr. White; that such ideas might be passed on by the individual or by the organization, but that, however it is done, the nurseryman could be certain of a proper hearing.

Mr. Soraci spoke about the origin of the word "quarantine" and said that a period of 40 days is implied in its original meaning. A quarantine was originally and should be an emergency measure of short duration. Once the effect of a new pest in its new habitat is known the need is to talk of control programs rather than quarantine measures. An important part of the control program is the prevention of artificial spread, usually by man's vehicles. Control of natural spread and the measures necessary to provide a reduction of the pest population within the infested area are other parts of the control program. The Japanese beetle program is coming to be known as a control program rather than a quarantine program, he said.

### European Chafer Infestation

To illustrate the change in attitude with regard to the application of quarantine restrictions, Mr. Soraci summarized the current situation regarding European chafer infestation in northern New York state and Connecticut and the golden nematode situation on Long Island. He also informed the group of the developments in New Jersey relative to the single known instance of golden nematode infestation near Matawan. Mr. Soraci gave a history of that infestation and advised the nurserymen that a highly favorable working agreement had been reached with farmers in the area so that the

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### SHEARED SPECIMEN EVERGREENS

	10 rate Each	100 rate Each
Balled and Burlapped		
Juniperus Pfitzeriana, 18 to 24 ins.	\$ 3.25	\$ 3.00
Juniperus Pfitzeriana, 24 to 30 ins.	4.25	4.00
Juniperus Hibernica Fastigiata, 3 to 4 ft.	2.75	2.50
Juniperus Excelsa Stricta, 18 to 24 ins.	2.75	2.50
Juniperus Excelsa Stricta, 24 to 30 ins.	3.00	2.75
Juniperus Virginiana Canaerti, 3 to 4 ft.	5.50	
Juniperus Virginiana Canaerti, 4 to 5 ft.	6.50	
Juniperus Virginiana Dundee, 3 to 4 ft.	5.50	
Juniperus Virginiana Dundee, 4 to 5 ft.	6.50	
Taxus Cuspidata (Spreading), 15 to 18 ins.	4.00	3.75
Taxus Cuspidata (Spreading), 18 to 24 ins.	5.00	4.75
Taxus Cuspidata Capitata (Upright), 30 to 36 ins.	8.25	8.00
3 to 3 1/2 ft.	11.00	10.00
3 1/2 to 4 ft.	13.50	12.50
4 to 4 1/2 ft.	16.00	15.00
4 1/2 to 5 ft.	21.00	20.00
Taxus Densiformis (New Spreader), 15 to 18 ins.	4.25	4.00
18 to 24 ins.	5.25	5.00
24 to 30 ins.	6.50	6.00
Taxus Media Hatfieldi (Upright), 15 to 18 ins.	3.75	3.50
18 to 24 ins.	4.75	4.50
24 to 30 ins.	6.50	6.00
Taxus Media Hicksi (Upright), 15 to 18 ins.	3.75	3.50
Taxus Media Hicksi (Upright), 18 to 24 ins.	4.75	4.50

### SHADE TREES

Cutleaf Weeping Birch, 5 to 6 ft.	3.00	2.75
Cutleaf Weeping Birch, 6 to 8 ft.	3.50	3.25
Sorbus Aucuparia [European Mountain], 5 to 6 ft.	1.75	1.50

### SHRUBS

Almond, Pink-flowering, 18 to 24 ins.	.40	.35
Almond, Pink-flowering, 2 to 3 ft.	.45	.40
Althaea, Double Pink and Double Red, 2 to 3 ft.	.30	.25
Caryopteris Blue Mist, 18 to 24 ins.	.55	.50
Euonymus Carrierei, 3-yr., 12 to 15 ins., BR.	.90	.80
Euonymus Carrierei, 3-yr., 15 to 18 ins., BR.	1.00	.90
Euonymus Patens, 15 to 18 ins., BR.	1.00	.90
Honeysuckle, Morrow, 2 to 3 ft.	.40	.35
Honeysuckle, Morrow, 3 to 4 ft.	.45	.40
Hydrangea P.G., 2 to 3 ft.	.45	.40
Kolkwitzia Amabilis (Beauty Bush), 18 to 24 ins.	.55	.50
Lilac, Persian, 18 to 24 ins.	.40	.35
Lilac, Persian, 2 to 3 ft.	.45	.40
Philadelphus Coronarius, 2 to 3 ft.	.45	.40
Philadelphus Coronarius, 3 to 4 ft.	.50	.45
Privet, A. R. N., 18 to 24 ins., 4 Br. and up	.15	.12 1/2
Spiraea Opulifolia Nana, 18 to 24 ins.	.30	.25
Spiraea Opulifolia Nana, 2 to 3 ft.	.35	.30
Spiraea Vanhouttei, 2 to 3 ft.	.30	.25
Spiraea Vanhouttei, 3 to 4 ft.	.35	.30
Weigela Floribunda (Red), 2 to 3 ft.	.50	.45

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6 to 8 ins.	14 1/2c
8 to 10 ins.	20c
10 to 12 ins.	26c

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ANDERSONI, 3-yr., 30c.  
CUSPIDATA, 2-yr., 25c; 3-yr., 30c.  
HATFIELDI, 2-yr., 25c; 3-yr., 30c.  
HICKSI, 2-yr., 25c; 3-yr., 30c.  
MEDIA No. 8, 1-yr., 20c; 2-yr., 25c.  
MEDIA No. 6, 2-yr., 25c.  
SIEBOLDI, 3-yr., 30c.  
THAYERAE, 2-yr., 25c; 3-yr., 30c.

Cash with order, packing free. Otherwise, packing at cost. Send 25% cash with C.O.D. orders.

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land would be heavily dosed with the fumigant "D-D" in 1953, and that necessary measures had been taken to insure that spread from this infestation would not occur. The group was also given information about the discovery of alfalfa weevil in the eastern states including New Jersey during 1952. Mr. Soraci stressed the fact that bordering states have been notified of these various finds and have been advised that everything possible will be done to control these infestations, and said that the wholehearted cooperation of all other states and the federal government has been extended to New Jersey.

Mr. Soraci closed his talk by stating that it would appear that industry and government are fast realizing that the goal of proper protection of our agricultural and allied interests can be reached only through cooperative action, and that this realization means that we are coming of age with respect to the plant quarantine problem.

#### Washington Outlook

The next speaker was Richard P. White, executive secretary of the American Association of Nurserymen. Dr. White opened his remarks by saying how glad he was to be back to his old "home" since it was just 25 years ago this year that he came to New Jersey as a member of the plant pathology department at Rutgers University.

He pointed out that New Jersey nurserymen make up 4.2 per cent of the A. A. N. membership and represent 4.4 per cent of the income.

Turning his attention to problems of the nursery industry, Dr. White told of the prospective increase of 17,000,000 persons in the country by 1960. This population growth should insure a continued high demand for the nurseryman's products, he said. Home building should continue at the rate of about 1,000,000 units a year, but even with a decline in construction of homes, building activity would probably remain

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AMERICAN ELM, 2 to 4-inch caliper

CHINESE ELM, 1 to 2-inch caliper

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Cotoneaster Acutifolia Per 1000

18 to 24 ins., tpl., well-br..... \$220.00

2 to 3 ft., tpl., well-br..... 350.00

Caragana Arborescens

2 to 3 ft., 2-yr. sdgs..... 42.00

18 to 24 ins., 2-yr. sdgs..... 34.00

Chadwick's Buckthorn

2 to 3 ft., tpl., well-br..... 200.00

3 to 4 ft., tpl., well-br..... 250.00

Russian Olive

2 to 3 ft..... 60.00

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high, he asserted, because of a large backlog of school construction. Appropriations for highways should increase in 1953 by about \$3,000,000, 000 for the entire country, Dr. White continued, and in the state of New Jersey, the new parkway, which will run almost for the entire length of the state, will open a tremendous market for nursery products.

Dr. White predicted that labor would continue to be the item in the nurseryman's budget most difficult to obtain, especially so in New Jersey because of the heavy industrialization in the state. He then reviewed the activities of the A. A. N. in the advertising field, its efforts concerning the new postal rate increases and the recently promulgated group insurance plan.

#### Landscaping the New Parkway

The luncheon speaker for the day was Oliver A. Deakin, of the New Jersey highway authority, who is directing the landscape planting along the new Garden State parkway, which is not to be confused with the new state turnpike. The title of his talk was "Landscaping the Garden State Parkway."

After viewing the many colored slides which Mr. Deakin presented showing all the phases of the work required to construct the modern parkway, from the original decisions of where the parkway would run through the actual construction to the final landscaped picture, it was obvious to everyone present that, when the parkway is finished, as a beautiful and useful development, it will have no peer. The location of plants in relation to the highway itself has been considered so thoroughly that no tree will cast shadows on the highway's surface during the winter months. This, of course, is important for safety reasons since patches of shadows create patches of ice during the winter months. Mr. Deakin showed how natural beauty is preserved and how, many times, a wider right-of-way is purchased in order to take in some particularly interesting or attractive piece of nature.

It was pointed out that, in many sections of the highway, the north and south lanes will be separated so far apart that persons in one line of traffic will not be able to see traffic moving in the opposite direction.

The final session of the 2-day program consisted of a panel discussion of "Preferred Taxus Varieties," which had William P. Howe, Jr., Howe's Nurseries, Pennington, N. J.,



1-yr. Asparagus block in 3½-ft. rows.

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3-yr., Heavy .....	\$4.00	\$30.00
2-yr., No. 1 .....	2.50	20.00
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Special prices are available for large quantity lots. We also have a bulk price on ungraded roots in either 1 or 2-yr. size.

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#### JUNIPERUS HETZI GLAUCA

1-yr., R.C. ....	10c each
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2-yr., 8 to 12 ins. ....	25c each

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## LINERS

4-yr., XX, 2 yrs. open beds.  
No Packing Charge.

Arborvitae, Dark Green, 9 to 12 ins. ....	\$0.45
Arborvitae, Woodward, 9 to 12 ins. ....	.60
Juniperus Hetzi, 6 to 9 ins. ....	.50
Juniperus Hetzi, 9 to 12 ins. ....	.60
Pinus Mugho, 6 to 9 ins. ....	.45
Spruce, Colorado Green, 9 to 12 ins. ....	.35
Spruce, Norway, 9 to 12 ins. ....	.17

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- 1-yr., No. 1, very heavy... 30c  
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 Lining-out grade... 10c  
 1-gal. cans (little trees;  
 will bloom this season)... 50c

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- 2-yr., heavy, 3 ft. and up,  
 heavily branched, really  
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- 1-yr., 15 to 18 ins.... 15c  
 2-yr., 24 ins. and up.... 25c

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Montmorency Cherry, 1-yr., 18 to 24 ins.  
 5/16-in., 7/16-in., 9/16-in. and  
 11/16-in. caliper. Many trees in  
 11/16-in. grade will run 3/4-in.

Montmorency Cherry, 2 and 3-yr.,  
 heavy.  
 XXX grade, heavy  
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as its moderator. Other members of the panel were Howard Taylor, Rosedale Nurseries, Eastview, N. Y.; Russell Bettes, Piedmont Landscape Co., Princeton, N. J.; Klass DeWilde, Perkins-DeWilde Nurseries, Shiloh, N. J., and Fritz Hendrick, Bobbink & Atkins, East Rutherford, N. J.

Part of the discussion centered on a problem which has become increasingly acute in the industry, the matter of naming varieties without consulting the rest of the trade to see if duplication among these varieties exists. This has been particularly troublesome in cataloging varieties of taxus, members of the panel asserted, and now it is almost essential for buyers to see the plants before purchasing them so as to be certain of what they are going to receive.

To help remedy this situation, the association resolved to organize a committee to consider the possibility of starting a collection of all the known taxus varieties so they may be studied and information about their habits, adaptability and hardiness arranged into some good system of reference.

The nurserymen were pleasantly surprised by an unexpected visit to the meeting of Ransford Abbott, the New Jersey highway commissioner, who gave them further details about the new Garden State parkway.

The highway is being constructed, he said, to take full advantage of all the scenic beauty of the area along its 185-mile length. For the first time in the highway department's history landscape engineers had walked over the entire project before alignments were decided upon. At some points, the commissioner continued, the alignment covers widths of 500 to 1,000 feet so as to take advantage of certain natural landscape features.

Another innovation in the planning work was the inclusion of landscaping costs in the total cost of the project. Funds for this purpose have already been earmarked, he told the nurserymen. Ordinarily, such things as money for landscape work are left until the end of the actual construction and then there is often no money left.

RICHARD WYMAN, Wyman's Garden Center, Framingham, Mass., is testing in the Boston Land court the ownership claim of Edward Lynch to a 48,000 square foot tract of land adjoining property held by Mr. Wyman at Natick, Mass. Mr. Lynch bases his claim to ownership on the fact that no titleholder could be found before he took possession of the land.

## SPRING, 1953, SURPLUS

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 You may select and tag your own  
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### Spreading Yews

18 to 24 ins.	\$ 5.25
24 to 30 ins.	6.50
30 to 36 ins.	7.50
36 to 42 ins.	8.75
42 to 48 ins.	10.00

### Hicks' Yews

24 to 30 ins.	6.50
30 to 36 ins.	7.50
36 to 42 ins.	8.75

### Pfitzer Junipers

30 to 36 ins.	6.00
36 to 42 ins.	7.25
42 to 48 ins.	8.50

Above prices are B&B for 10 to 1000.

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 Phlox or Peonies  
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## TEUCRIUM CHAMAEDRYIS

Well-rooted cuttings.

\$5.00 per 100 \$45.00 per 1000

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## LINERS

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 HEMLOCK — DEUTZIA GRACILIS  
 and ROSEA — WEIGELA EVA  
 RATHKE — TRANSPLANTS AND  
 POTTED PLANTS.

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 MT. STERLING, KY.



## Propagation with Plastic

Work done by Lewis F. Lipp, chief propagator at the Arnold Arboretum, Jamaica Plain, Mass., on a new method of propagating hard-to-root plants was described in a recent issue of *Newsweek* magazine, as was reported in the March 1 issue of the *American Nurseryman*. The following is a somewhat enlarged description of this technique, written by Mr. Lipp for the *American Nurseryman*.

Most horticultural varieties of ornamental trees and shrubs must be grown by vegetative propagation because they do not breed true from seeds. Propagation of plants from cuttings of twigs or stems is the most satisfactory method of reproduction, but some varieties do not root easily and others are best grown on special rootstocks. Varieties which cannot be rooted easily from cuttings are often propagated successfully by air layerage—a technique developed by the Chinese before the Christian era. In fact all of the basic methods of vegetative propagation are of great antiquity and budding and grafting were used in Roman times.

In recent times, hormones which stimulate root growth have been developed, and these increase the likelihood of rooting cuttings, but even this technique is only a refinement of ancient practices. The early horticulturists often inserted a sprouted seed in a cleft at the base of the cutting to provide the hormone that stimulates root formation. The use of electric heating cables in the propagating bench is a recent modification of the older coldframe method of providing bottom heat by the use of decomposing horse manure. The new polyethylene plastic film has made it easier to propagate plants by air layerage, but the Chinese obtained results by wounding a stem, covering it with a split clay pot containing peat moss and keeping it moist by dripping water on the peat moss from an earthen container suspended above the pot.

In most respects the vegetative propagation of plants is still an art and depends largely on the skill of the propagator. Rooting hormones are of value, automatic humidifiers are helpful and electric heating cables are sometimes useful, but a skilled propagator does not need these gadgets except in rare cases. The greatest value of these more modern techniques is the saving of time and labor. Even greater savings can be made by adapting polyeth-

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<b>Retinospora</b>		
Crippsi	\$20.00	\$180.00
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	Per 100	Per 1000
<b>Retinospora</b>		
Plumosa, 10 to 12 ins.	\$17.50	\$150.00
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(Heavy—will make salable plants soon.)		

	Per 100	Per 1000
<b>Cunninghamia Lanceolata Glauca</b>	\$20.00	\$180.00
<b>Thuja (Arbovitae)</b>		
*American Nigra, 6 to 8 ins.	25.00	225.00
Bakeri	25.00	225.00
*Elegantissima, 6 to 8 ins.	22.50	200.00
*Lutea (Geo. Peabody), 6 to 8 ins.	20.00	180.00
Woodwardi (Globe), 6 to 8 ins.	22.50	200.00
<b>Juniperus</b>		
Conferta (Litoralis)	20.00	180.00
Hibernica (Irish)	17.50	150.00
Pfitzeriana	22.50	200.00
Pfitzeriana Hetzi	22.50	200.00
Sylvestris	20.00	180.00
<b>Taxus</b>		
Cuspidata Capitata	20.00	180.00
Media Hatfieldi	20.00	180.00
Media Hicksi	20.00	180.00
<b>Euonymus</b>		
*Patens, 4 to 6 ins.	17.50	150.00
Pulchellus	17.50	150.00
<b>Ilex (This is one of our Specialties)</b>		
Cornuta Burfordi	22.50	200.00
*Crenata	18.50	175.00
Crenata Bullata Convexa	20.00	180.00
*Crenata Bullata Convexa, 6 to 8 ins.	22.50	200.00
*Crenata Helleri, 2-in. pot	25.00	225.00
*Crenata Microphylla, 6 to 8 ins.	22.50	200.00
*Crenata Rotundifolia, 6 to 8 ins.	20.00	180.00
Opaca East Palatka	30.00	275.00
Leucothoe Catesbaei	22.50	200.00
Osmanthus Fortunei	20.00	180.00
<b>Prunus</b>		
Officinalis (English Laurel)	20.00	180.00
<b>Pyracantha</b>		
Lalandi	20.00	180.00
Hedera Helix	15.00	125.00
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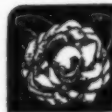
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American Globe Arborvitae  
Cedrus Deodara  
Juniper, Irish  
Juniperus Andorra

Juniperus Excelsa Stricta  
Juniperus Fastigiata  
Juniperus Pfitzeriana  
Juniperus Pfitzeriana Compacta  
Juniperus Pfitzeriana Nana  
Juniperus Sabina von Ehron  
Juniperus Virginiana Canaerti  
Juniperus Virginiana Dundee  
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Hydrangea P.G.	Per 100	Per 1000
4 to 6 ins., 1-yr., C...	\$4.50	\$40.00
6 to 12 ins., 1-yr., C...	6.00	55.00
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Spiraea Vanhouttei		
6 to 12 ins., C...	3.50	30.00
9 to 12 ins., hedging...	4.50	40.00
12 to 18 ins., hedging...	6.50	60.00
18 to 24 ins., hedging...	8.50	80.00

Cornus Florida	Per 10	Per 100
2 to 3 ft., 2-yr., light br.	\$2.50	\$20.00
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6 to 8 ft., well-br.	7.50	70.00

Rhododendron Maximum,		
Kalmia Latifolia, Ilex	Per 100	Per 1000
Opaca, Tsuga Canadensis		
3 to 6 ins., S...	\$2.50	\$20.00
6 to 9 ins., S...	3.50	30.00
9 to 12 ins., S...	5.50	50.00
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ylene plastic film to propagation work. This film, combined with a new rooting mixture of sand, peat moss and plastic, not only reduces the labor of propagation, but also makes it so simple that it can be done successfully by any amateur horticulturist.

The method of propagation of cuttings developed at the Arnold Arboretum seeks to satisfy two requirements—retention of moisture in the air and proper aeration of the rooting medium. These two requirements are met by using the new polyethylene plastic film developed by the DuPont Co. and widely used for packaging fruits and vegetables. This film prevents the escape of moisture yet permits air to circulate into the package in which the plants are wrapped.

Another ingredient necessary for the cutting frame is Styrofoam, a light plastic which does not absorb water. It is used for home insulation and for floral displays. It is available in bulk from local florists. When mixed with sand and peat moss it keeps the soil aerated even when overwatered. Aeration is necessary for the root development of most cuttings.

### Simple Propagating Unit

A simple propagating unit can be made by filling a greenhouse flat or other shallow box with equal parts of coarse sand, peat moss and Styrofoam. The cuttings are placed in this "soil," though one should first treat the base of the cuttings with a rooting hormone if the material is known to be difficult to root. The soil should be moist, but not saturated with water. Next, a wire frame is made by placing three wicket-shaped wires in the flat—one at each end and one in the middle—tall enough to extend eight to 10 inches above the flat. Over this frame is placed a layer of cheesecloth to provide some shade and to hold moisture. Over the cheesecloth is placed a sheet of polyethylene film large enough so that when the ends and sides are tucked completely under the flat they overlap and thus completely enclose flat and frame. The polyethylene film prevents the escape of water from the air and soil but permits the exchange of gases with the outside so that the cuttings can "breathe."

When completed, such a propagating unit can be placed on the greenhouse bench or by the window in a home. In the summer it can be put in a shaded area in the garden. It needs no watering or other attention for weeks or even months. When the cuttings are well-rooted the plas-



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	Each		Per 10	Per 100		Per 10	Per 100	
<b>Arborvitae, Bakeri</b>		<b>Althaea Rubis</b>						<b>Hydrangea P.G.</b>
24 to 30 ins., B&B.....	\$1.10	75 18 to 24 ins., L.O.....	\$0.04½	\$0.04	57 12 to 18 ins., br.....	\$0.25	\$0.20	
20 to 36 ins., B&B.....	1.35	<b>Althaea Purpurea Semiplena</b>			206 L. O.....	.15	.10	
3 to 4 ft., B&B.....	1.60	75 2 to 3 ft., br.....	.20	.15	<b>Magnolia Soulangeana Nigra</b>			
<b>Arborvitae, Bonita</b>		<b>Beauty-berry (Callicarpa Americana)</b>			28 2 to 3 ft., br.....			
250 15 to 18 ins., B&B.....	1.10	15 2 to 4 ft., br.....	.25	.20	bare root.....		1.25	
<b>Arborvitae, Bonita Upright</b>		225 2 to 3 ft., br.....	.20	.15	<b>Philadelphus Coronarius</b>			
250 24 to 36 ins., B&B.....	1.35	56 12 to 18 ins., br.....	.10	.08	100 12 to 18 ins., br.....	.15	.10	
25 30 to 36 ins., B&B.....	1.60	<b>Barberry, Green-leaved</b>			<b>Philadelphus Grandiflorus</b>			
<b>Arborvitae, Conspicua</b>		12 24 to 30 ins., br.....	.30	.25	50 12 to 18 ins., br.....	.15	.10	
50 24 to 30 ins., B&B.....	1.50	110 9 to 12 ins., br.....	.10	.10	<b>Privet, California</b>			
<b>Arborvitae, Excelsa</b>		<b>Buddleia Farquhari</b>			775 12 to 18 ins., br.....	.05	.04	
40 3 to 4 ft., B&B.....	1.60	22 No. 2.....	.10		<b>Privet, Regel</b>			
<b>Arborvitae, Oriental (Chinese)</b>		<b>Buddleia Pink Charming</b>			20 24 to 30 ins., br.....	.30	.25	
50 2 to 3 ft., B&B.....	1.25	50 No. 1½.....	.20	.15	1675 12 to 18 ins., br.....	.20	.15	
<b>Cedrus Deodara</b>		<b>Crape Myrtle, Pink</b>			450 9 to 12 ins., br.....	.12	.10	
2 to 3 ft., B&B.....	2.00	40 4 to 5 ft., br.....	.50	.45	<b>Roses, American Beauty</b>			
<b>Juniper, Irish</b>		295 3 to 4 ft., br.....	.45	.40	106 No. 1.....			
200 30 to 36 ins., B&B.....	1.25	825 2 to 3 ft., br.....	.40	.35	10 No. 1½.....		.25	
<b>Juniper, Pfitzer</b>		<b>Crape Myrtle, Purple</b>			<b>Roses, Paul's Scarlet</b>			
15 to 18 ins., B&B.....	1.50	5 4 to 5 ft., br.....	.50	.45	72 No. 1.....	.30		
775 18 to 24 ins., B&B.....	1.75	26 3 to 4 ft., br.....	.45	.40	10 No. 1½.....	.25		
<b>Juniper, Sylvestris</b>		295 2 to 3 ft., br.....	.40	.35	<b>Spiraea Pennsylvanica</b>			
2 to 3 ft., B&B.....	1.50	12 18 to 24 ins., br.....	.30	.25	35 3 to 4 ft., br.....	.30		
<b>BROAD-LEAVED EVERGREENS</b>					<b>Spiraea Vanhouttei</b>			
<b>Magnolia Grandiflora</b>	Each	125 18 to 24 ins., 2 br.....	.25	.20	925 3 to 4 ft., br.....	.25	.20	
2 to 3 ft., B&B.....	2.00	190 12 to 18 ins., br.....	.25	.20	4135 2 to 3 ft., br.....	.20	.15	
3 to 4 ft., B&B.....	2.50	100 12 to 18 ins., 2 br.....	.20	.15	8616 18 to 24 ins., br.....	.15	.10	
<b>Magnolia Soulangeana</b>		25 12 to 18 ins., L. O.....	.08	.06	175 18 to 24 ins., bldg.....	.08	.06	
80 3 to 4 ft., B&B.....	3.00	<b>Deutzia Pride of Rochester</b>			425 12 to 18 ins., bldg.....	.06	.05	
<b>Magnolia Soulangeana Nigra</b>		30 3 to 4 ft., br.....	.25	.20	<b>Viburnum Opulus Sterile</b>			
2 to 3 ft., B&B.....	2.50	25 18 to 24 ins., br.....	.15	.10	289 12 to 18 ins., br.....	.25		
3 to 4 ft., B&B.....	3.00	375 12 to 18 ins., br.....	.10	.08	<b>Weigela Eva Rathke</b>			
<b>Nandina Domestica</b>		<b>Deutzia Rosea</b>			1908 2 to 3 ft., br.....	.35	.30	
18 to 24 ins., B&B.....	1.00	662 12 to 18 ins., br.....	.10	.08	3500 18 to 24 ins., br.....	.30	.25	
2 to 3 ft., B&B.....	1.25	100 12 to 18 ins., 2 br.....	.08	.06	1175 18 to 24 ins., 2 br.....	.25	.20	
<b>Photinia Serotina</b>		<b>Forsythia Fortunei</b>			2835 12 to 18 ins., br.....	.25	.20	
100 30 to 36 ins., B&B.....	1.75	225 12 to 18 ins., br.....	.08	.06	745 12 to 18 ins., 2 br.....	.20	.15	
<b>FLOWERING SHRUBS</b>					<b>Weigela Floribunda</b>			
<b>Almond, Pink-flowering</b>	Each	<b>Forsythia Intermedia</b>			268 2 to 3 ft., br.....	.35	.30	
1120 18 to 24 ins., br.....	\$0.25	215 12 to 18 ins., br.....	.08	.06	1115 18 to 24 ins., br.....	.30	.25	
896 12 to 18 ins., br.....	.17½	125 12 to 18 ins., 2 br.....	.07	.05	<b>TREES</b>			
<b>Althaea Anemoniflora</b>		<b>Forsythia Spectabilis</b>			<b>Silver Maple</b>			
2650 3 to 4 ft., br.....	.25	590 2 to 3 ft., 3 br.....	.20	.15	176 5 to 6 ft., 2-yr.....	.60		
400 12 to 18 ins., br.....	.10	and up.....	.20	.15	51 4 to 5 ft., 2-yr.....	.50		
<b>Althaea Ardens</b>		1315 18 to 24 ins., br.....	.15	.12	15 3 to 4 ft., 2-yr.....	.40		
12 4 to 5 ft., br.....	.30	1200 18 to 24 ins., 2 br.....	.08	.06	<b>Lombardy Poplar</b>			
<b>Althaea Boule de Feu</b>		1495 12 to 18 ins., br.....	.08	.06	15 5 to 6 ft., 2-yr.....	.40	.30	
50 18 to 24 ins., br.....	.15	800 12 to 18 ins., 2 br.....	.07	.05	100 4 to 5 ft., 2-yr.....	.35	.25	
<b>Althaea Jeanne d'Arc</b>		50 18 to 24 ins., L.O.....	.04	.03½	225 3 to 4 ft., 2-yr.....	.30	.20	
1000 18 to 24 ins., br.....	.15	<b>Honeysuckle, Heckrott</b>			100 2 to 3 ft., 2-yr.....	.20	.15	
<b>Althaea Lady Stanley</b>		140 No. 1.....	.30	.25	59 L.O., 2-yr.....	.05		
329 3 to 4 ft., br.....	.25	10 4 to 5 ft., br.....	.35	.30	<b>Tulip Poplar</b>			
275 12 to 18 ins., br.....	.10	85 2 to 3 ft., br.....	.25	.20	13 4 to 5 ft., 2-yr.....	.50		
<b>Althaea Lemoinei</b>		1350 18 to 24 ins., br.....	.20	.15	50 3 to 4 ft., 2-yr.....	.40		
525 18 to 24 ins., L.O.....	.04½	400 18 to 24 ins., 2 br.....	.12	.10	34 2 to 3 ft., 2-yr.....	.30	.20	
<b>Althaea Paeoniflora</b>		457 12 to 18 ins., br.....	.12	.10	10 18 to 24 ins., 2-yr.....	.20		
265 3 to 4 ft., br.....	.25	<b>Honeysuckle, Zabel</b>			<b>Willow, Niobe</b>			
50 2 to 3 ft., br.....	.20	70 2 to 3 ft., br.....	.25	.20	282 4 to 5 ft., 2-yr.....	.60	.40	
		25 18 to 24 ins., br.....	.20	.15	380 3 to 4 ft., 2-yr.....	.40	.30	
		150 18 to 24 ins., 2 br.....	.12	.10				

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tic film is opened at one end for several days and gradually removed as the cuttings become accustomed to normal air and temperature. They can then be lined out in the cold-frame or nursery. When the plastic film is removed the flat will have to be watered, but with the Styrofoam in the soil it is almost impossible to overwater.

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Sugar Maple Trees	Per 10	Per 100
6 to 8 ft., well-br.	\$12.50	\$100.00
8 to 10 ft., well-br.	15.00	135.00
10 to 12 ft., well-br.	25.00	225.00

White-flowering Dogwood		
4 to 5 ft., well-br.	10.00	85.00
5 to 6 ft., well-br.	12.50	110.00
6 to 8 ft., well-br.	17.50	150.00
8 to 10 ft., well-br.	22.50	200.00

Lombardy Poplar		
5 to 6 ft., well-br.	4.00	30.00
6 to 8 ft., well-br.	5.00	40.00
8 to 10 ft., well-br.	6.00	50.00

## HARDY DECIDUOUS FLOWERING SHRUBS

Double Pink-flowering Almond.		
Nice 2-year transplants, own-roots.	Per 100	Per 1000
12 to 18 ins., br.	\$20.00	\$175.00
18 to 24 ins., br.	30.00	250.00
2 to 3 ft., br.	40.00	350.00

Dwarf Spiraea Anthony Waterer		
2-year transplants.	Per 10	Per 100
L.O. Divisions	\$1.50	\$10.00
8 to 12 ins., well-br.	3.00	20.00
12 to 15 ins., well-br.	4.00	30.00
15 to 18 ins., well-br.	5.00	40.00

2% for cash and free packing.

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## A TRIUMPH IN BOOKKEEPING

[Continued from page 12]

for a while, but I can tell you it looks mighty fishy to me," I says to him.

"Its a good deal all around, Chas.," Emil explained, "the government makes more tax and its a saving to me, whats wrong with that?"

"The only flaw I can see off hand in your plan Emil, is the question of whether you aim to pay any tax at all, in that case you better throw this entry out," I says.

"Does that wind it Chas?" Emil says.

"I dont see what you got figured in this item of miscellaneous expense. You got \$788 down here, what items goes into that?" I says.

"Well, there is that radio I bought, cost me \$180," Emil says.

"How do you figure that for expense," I says, "look like you are pulling a fast one there," I says.

"No I aint," Emil says. "I had to get that for the weather report. How would I know how to plan my work if I didnt keep a close tab on the weather? The revenue department wouldnt like if I had a long distance phone call every day to the weather bureau, that would run me more in a year than the cost of the radio, so again Im saving them money the way I see it."

"By the way Emil," I says. "did you charge for that ad you run in the Riverbend Gazette, when you thought you lost your wifes Persian cat? If anybody ever run thru your ads they would throw that out," I says.

"Oh, is that so?" Emil says. "That cat keeps the mice out of the nursery, in fact Ive got a good notion to charge up \$25 for cat food. Make a note of that Chas., if we need a few more items to add in."

With that last item I give it up. I added up his figures and got \$6.80 tax.

"Maybe you better take out that item of depreciation on the truck, Chas.," Emil says, "that will run the tax up to about \$12, I never like to get it under \$10. After all somebody has got to pay off the national debt," he says.

Now if there is any saving Emil has overlooked he would appreciate it if the members would drop him a line. Emil says there is enough trouble in the nursery business without throwing money away on income taxes.

NEW president of the California Retail Nurserymen's Association is Seymour Schwartzman, of the Studio Nursery, North Hollywood, Calif.



## PLANTING A DOORWAY

[Continued from page 14]

group, but can do a fine job under conditions of light soil, extreme heat and severely dry weather.

Two cotoneasters worthy of being used for this doorway planting are Cotoneaster horizontalis and its varieties, rock cotoneaster and Cotoneaster apiculata, cranberry cotoneaster. The rock cotoneaster with its spreading informal appearance might be used in groups of three on either side of the step. The cranberry cotoneaster, which makes greater height, but could be easily maintained at two to two and a half feet, is of a different form than its relation. The cranberry cotoneaster builds up a round mound-like growth with lower branches spreading on the ground. Its interesting large red berries are welcomed through the fall season.

The yews offer excellent possibilities other than the spreading English yew. Taxus cuspidata nana, dwarf Japanese yew, is still good and maintains a good green color when it is growing in partial shade. It can be kept at a height of two feet for years.

Pinus mugo mughus, Mugho pine, is often used for a position on either side of a doorway. It is well to select dense short-needle types if used, but scale has discouraged its being used by some landscape planners.

Dwarf types such as Buxus microphylla koreana, Korean box; Ilex crenata helleri and Ilex crenata stokesi, Heller's and Stokes' hollies; Teucrium chamaedrys, chamaedrys germander; Pachistima canbyi, Canby pachistima, and Sarcococca hookeriana humilis, dwarf Hooker sarcococca, might be fitted into a doorway planting like that shown in the illustration. The above would have to be used in groups of three or more, depending on the selection, in each location in order to create enough body to the planting.

Study the effect that the suggested plants might create and then think of the same result created by upright clipped forms. Which makes the more inviting entrance?

LEW LUSTER, formerly with the Wyandotte, Mich., News-Herald, is new district manager for southeastern Michigan and part of Ohio for Stark Bros. Nurseries & Orchards Co. He will work with the Monroe, Mich., branch of the Stark Bros. firm, the main office of which is at Louisiana, Mo.

CERCIS CANADENSIS (American Redbud)		Per 10	Per 100
4 to 5 ft.	.....	\$5.50	\$50.00
3 to 4 ft.	.....	4.50	40.00
2 to 3 ft.	.....	4.00	35.00
SILVERLEAF MAPLE			
6 to 8 ft.	.....	8.00	75.00
5 to 6 ft.	.....	7.00	65.00
LIRIODENDRON TULIPIFERA (Tulip Tree)			
6 to 8 ft.	.....	8.00	75.00
5 to 6 ft.	.....	7.00	65.00
4 to 5 ft.	.....	6.50	60.00
CHINESE ELM			
3 to 4 ft.	.....	4.00	35.00
2 to 3 ft., sdlg.	.....		6.00
18 to 24 ins., sdlg.	.....		4.00
RED-FLOWERING PEACH			
1 1/16-in. cal., 4 to 5 ft.	.....	6.00	55.00
9/16-in. cal., 3 to 4 ft.	.....	5.50	50.00
3 to 4 ft.	.....	5.00	45.00
CRAPE MYRTLE, Red			
2 to 3 ft.	.....	3.50	30.00
CYDONIA JAPONICA RUBRA			
2 to 3 ft.	.....	4.50	40.00
18 to 24 ins.	.....	4.00	35.00
RED-LEAVED BARBERRY, Tr.			
15 to 18 ins., well-br.	.....	4.50	40.00
12 to 15 ins., well-br.	.....	4.00	35.00
ALTHAEA, Double (Red, Purple, Pink, White)			
3 to 4 ft.	.....	3.50	30.00
2 to 3 ft.	.....	3.00	25.00
WISTARIA, Grafted, No. 1		4.50	
HYDRANGEA P. G.			
2 to 3 ft.	.....	3.50	30.00
18 to 24 ins.	.....	3.00	25.00
MIMOSA, Dark Red			
4 to 5 ft.	.....	4.00	35.00
3 to 4 ft.	.....	3.00	25.00
MIMOSA, Pink			
4 to 5 ft.	.....	3.50	30.00
3 to 4 ft.	.....	2.50	20.00
CHERRY, SWEET (Black Tartarian)			
7/16-in. cal.	.....		40.00
2 to 3 ft.	.....		30.00

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Rhododendrons and Azaleas  
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Collectors of Tree, Shrub and  
Wild Flower Seeds  
Crude Drugs and Ornamentals

**E. C. MORAN, Stanford, Mont.**

## GEORGIA MEETING

[Continued from page 7]

times over to the association and to individuals who participate in it."

Other important aspects of public relations pointed out by Mr. Wight are holding open house, giving mementos of special events, inviting friends and neighbors to see and learn about the operation of a nursery and inviting civic groups, garden clubs and other community organizations to special open houses. In summarizing his talk, Mr. Wight told the group, "If you do not grow good nursery stock, sell it at a fair price and give your public good service, you might as well forget about public relations. But if you are a conscientious nurseryman, proud of your vocation, growing the best possible nursery stock and selling it at a reasonable price, a good public relations' program will pay off manyfold for the time, thought and energy put into it."

### Supermarket Methods

Speaking on "Selling and Advertising Methods for the Nurseryman," Robert B. Entenberg, chairman of the retailing department, University of Georgia, stressed the use of supermarket methods. He began by emphasizing the importance of public relations, as had Mr. Wight, and pointing out that no matter how well the sales promotion and salesmanship might be carried out, no permanent business could be built without good stock at reasonable prices to back them up. Then he noted that primary conditions of supermarket success have been accessibility and adequate parking space. Nurserymen, he advised, should likewise consider the value of accessible grounds and parking facilities. He stressed the need to advertise the exact location of a nursery and pointed out that such advertising was particularly needed by Georgia nurserymen. Less than one fifth of the potential market in Georgia, he estimated, is being sold, and he suggested broadening the base of operations to achieve year-around volume rather than seasonal peaks. He also pointed out the value of side lines in off seasons.

Mr. Entenberg took the nurserymen to task for entirely too much secrecy in the trade as a whole. Customers should be instructed about growing and planting, he told them, and prices and names of plants should be posted conspicuously. Signs on the premises and showmanship in using shrubbery to landscape the nursery grounds stimulate business. Nursery trucks can be used as ex-



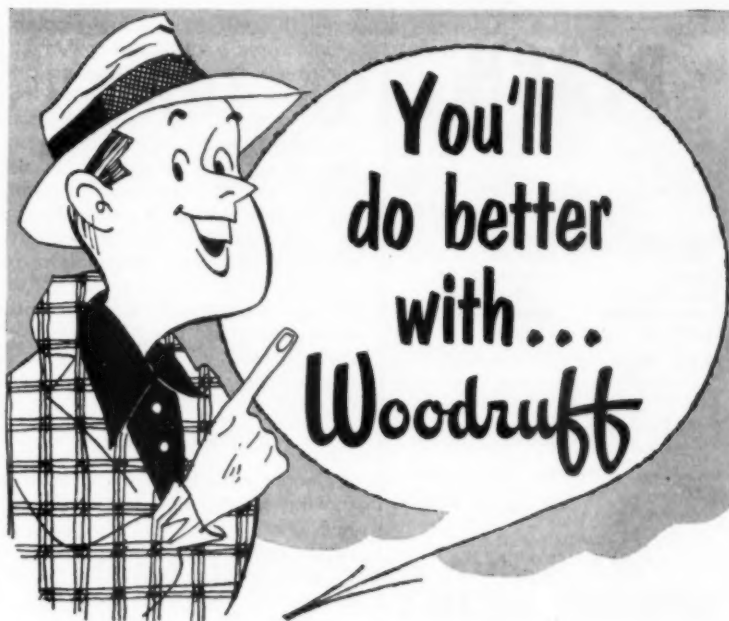
cellent outdoor advertising mediums if large signs and maps showing the location of the nursery are painted on the trucks. The best advertising there is, Mr. Entenberg continued, are the nurseryman's own lawns and grounds on display. He advocated night lighting and continued year-around advertising on the grounds. He pointed out the importance of offering free services, keeping check on anniversaries of customers, following through on sales and maintaining card files of walk-in customers and featuring technical exhibits. He also suggested credit arrangements with local banks in order to increase volume. This would have to be done by educating the bankers to accept the planting of homes as part of the cost of construction.

#### Foundation Plantings

Discussing "Design in Foundation Plantings," Prof. B. E. Wigginton, of the landscape architecture department of the university, emphasized that landscape design is an expression of art, and that the arrangement of the foundation planting depends on art principles and art training. He said that the design today in foundation planting is related to design in other fields of art, especially architecture. Emphasizing the functional aspects of design and the use of space, he told the group that a foundation plant is never a single object, but is part of a larger scheme. He stressed the matter of indoor-outdoor living, with service areas and adequate shade. Mr. Wigginton pointed out that nurserymen should consider the importance of ultimate size, speed of growth, form, texture and color of foliage and flowers in foundation plants. He advocated the use of foundation plantings to tie the house to the premises rather than to separate it.

#### More Irrigation Needed

Willis E. Huston, irrigation specialist for the school's agricultural extension service, told how irrigation can be used in the nursery and some of the problems involved. He pointed out that a proper water supply can mean bigger production for Georgia's nurserymen. He stressed the need of supplemental irrigation even in this area of high rainfall and pointed out that each year there is one or more drought periods in which irrigation will undoubtedly pay for the nurseryman. It is necessary to apply water to most Georgia soils at a rate of only about one inch over a period of three to four hours to



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## PEACH

	Per 10	Per 100
11/16-in. cal. ....	\$6.00	\$50.00
9/16-in. cal. ....	5.50	45.00
7/16-in. cal. ....	4.00	35.00
5/16-in. cal. ....	3.00	25.00

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**FRUIT TREES**—Apple, Cherry—See our ad, American Nurseryman, February 15, 1953.

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Premier .....	10.00
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avoid the soil washing and leaching which would occur if water were applied more frequently. He said that boxwoods which would take four years to reach a given size without irrigation would take about two years if properly irrigated. He also pointed out the possibility of using overhead irrigation to reduce danger of frost damage. Mr. Huston gave valuable technical information on types of irrigation available to the Georgia nurseryman, water requirements, costs and design, and offered the help of the extension service to nurserymen who want to install irrigation.

### Fertilizers Evaluated

Cooper Morcock, Jr., agronomist for the Barrett division of the Allied Dye & Chemical Corp., spoke on the merits of "Dry Versus Liquid Fertilization for the Nurseryman." Evaluating the worth and cost of liquid fertilizers and ordinary dry fertilizers, he based his comparisons on plant food content and the availability of ingredients to the plants. He advised nurserymen to examine carefully the contents of available plant foods in any kind of fertilizer which they buy and compare it on a basis of units of plant food rather than on a cost per pound basis. He also gave formulas for mixing soluble liquid materials for those nurserymen who wish to prepare their own liquid fertilizers.

### Sharp Practices Cited

C. H. Alden, director of entomology of the Georgia state department of agriculture, addressed the gathering on "Nursery Stock Misrepresentation and What We Can Do about It." He described what his department is doing in order to prevent the sale, in Georgia, of inferior nursery stock which is often represented as being first-class. He stated that he has been giving particular attention to plant bootleggers who deal in wild plants and that he has pretty well eliminated them by maintaining a roving inspector who requires them to take out dealers' licenses and to use a special green tag which states that their plants are not nursery-grown. He also said that nursery dealers, who buy for resale, and nursery agents, who take orders for future delivery, must register annually with the state department of entomology. Mr. Alden pointed out that the complaints of misrepresentation of nursery stock which are received by his department fall largely into two categories. One concerns misleading advertising in local

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and national newspapers and magazines; the other concerns order-takers for out-of-state nurseries whose plants are not as represented. He said that he had also had numerous dealers apply for licenses under various trade names, sometimes with wholly fictitious persons at the head. Nurserymen operating under trade names must conform with the trade and partnership name registration law of 1943. In concluding his talk, Mr. Alden advocated an educational program by state and national nurserymen's associations, better business bureaus and state departments warning people only to buy from certified nurserymen and dealers, and recommending that certified nurserymen and dealers make an effort to follow the ethical code set up by the American Association of Nurserymen. "In spite of all the safeguards that can be devised," Mr. Alden stated, "we will still have plant bootleggers just as we have liquor bootleggers; we will still have occasional outright frauds; and we will still have persons buying sorry nursery stock at a so-called cheap price."

#### Soil Test Conducted

Dr. Joel Giddens, of the university's soils department, demonstrated to the nurserymen how Georgia's soil-testing services handle samples of soil sent in to them and what some of the chemical reactions are as the soil is tested. He showed the nurserymen, specifically, the test for phosphorus. Then he explained the merits of the soil-testing laboratory reports as compared to various soil-testing kits available to the individual nurseryman. He pointed out the results obtained by the different methods and how they should be interpreted. He explained to the Georgia nurserymen that free soil testing by the soil-testing laboratory is available to them and that they should specify, when they send in samples, that they are samples from a nursery. He said that nurserymen in the southern part of the state should send their samples to the coastal plain soil-testing laboratory at Tifton, Ga.; those in the northeast section, to the college experiment station at Athens, and those in the central part of the state to the Georgia experiment station soil-testing laboratory at Experiment.

HUNDREDS of customers and garden lovers were invited to a second anniversary celebration, held recently by the Harold Mounsey Nursery, Monrovia, Calif. Informative lectures on rose culture and disease control were featured.

## DWARF APPLE TREES

New York State Grown

2-Year, 3/8-inch caliper and up.....\$1.50

Cortland  
Yellow Delicious  
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Northern Spy  
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Trees are big and grades are strong. Fine for retail sales. 2-yr., 5 to 6 ft., 1 1/16-in. cal. and up.....45c

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### CUT-LEAF WEeping BIRCH

(Betula Laciniata on White Birch)  
Well-branched, very fibrous roots.

	Each per 10	Per 100	Per 1000
4 to 5 ft.....	\$2.25	\$2.10	\$1.00
5 to 6 ft.....	2.50	2.30	1.70
6 to 7 ft.....	2.60	2.50	1.90
7 to 8 ft.....	2.80	2.70	2.00
8 to 10 ft.....	3.00	2.90	2.50

### NEW OTTAWA FLOWERING CRABS

Amisk, pink; Arrow, purple; Geneva, dark red; Makamik, rose; Scugog, purple; Sissipuk, rose and white.

All trees well-branched.

	Each per 10	Per 100	Per 1000
18 to 24 ins.....	\$0.55	\$0.50	\$0.40
2 to 3 ft.....	.70	.65	.55
3 to 4 ft.....	.85	.80	.70
4 to 5 ft.....	1.00	.95	.85
5 to 6 ft.....	1.25	1.10	1.00
6 to 8 ft.....	1.35	1.25	1.15

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### SAN JOAQUIN MEETING

The January meeting of the San Joaquin chapter of the California Association of Nurserymen was held January 15 at the El Rancho motel at Fresno.

Syd Whitehorn entered a resolution that patent holders of certain patented roses be notified of the infringement of pricing policies on said varieties by a Fresno nursery firm. The resolution was passed.

Notice was given of the coming directors' meeting, and the delegates asked for instructions.

Plans for a state-wide publicity program were discussed. The need for adequate funds was the primary issue. The question was how to get members to pay their actual share of dues. Syd Whitehorn then recommended that members re-examine their respective gross incomes on March 15.

A letter from the Fresno Children's hospital was read which thanked the Fresno nurserymen for landscaping the hospital grounds.

F. A. Patzke, branch office claim manager for Lumberman's Mutual Insurance Co., tried to explain the association's group insurance plans. Mr. Patzke described the two forms, U. C. D. and A. & S., and the proper way to complete each.

The guest list included Tom Haynes, of California Pest Control Co.; Frank Turner, of Volkman Seed Co.; Paul Lehrner, of W. B. Clarke & Co., and Ralph Bishop, of Ralph Bishop Co.

It was moved that the February meeting be held at Fresno, with Cliff Oliver in charge. President Andy Caglia presided.

Ivan L. Stribling, Sec'y.

### TRI-COUNTY MEETING

The first meeting in 1953 of the Tri-county chapter of the California Association of Nurserymen was held at the El Cielito restaurant, Santa Barbara, January 23.

After President Burt Trick, Home & Garden Tricks, Santa Maria, called the meeting to order the deaths of two former members of the Tri-county chapter, Wilbur Howes, of San Luis Obispo, and Arthur Ver-

nelle, of Santa Barbara, were officially announced. Flowers were sent to the funeral services by the chapter.

Bert Kallman, Kallman's Garden Nursery, Santa Barbara, reported that the employment of a state-wide public relations officer was to be approved at the next directors' meeting. The post would be a full-time job.

Howard Brown, of California Polytechnic College, San Luis Obispo, spoke to the nurserymen about the chapter's research committee, saying that the purpose of the committee is to collect suggestions for research problems and to forward them to the state association's research group,

where a request is made to the state department of agriculture for investigation of these problems by the department's various research bodies—agricultural extension services, University of California and other agencies.

Mr. Brown urged the nurserymen to think the matter over and to submit any problems they consider worth some attention. Examples of possible research topics, he said, are cost analysis of the production of container stock, work to determine the best techniques of soil sterilization and pest control studies.

Harry Stribling, Kallman's Garden Nursery, criticized the nurserymen for not being familiar with the bylaws of their own chapter. He suggested that they should be read at chapter meetings.

It was reported that Floyd Dillon, secretary of the chapter, was ill in the Ventura Foster hospital, and flowers were ordered sent.

Speaking on the program was Pressley Neville Jones, the state as-

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WE APPRECIATE YOUR PATRONAGE

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### NOW — Send for your new 1953 illustrated catalog.

Wire and redwood baskets; redwood tubs; wire and fernwood totem poles; plant supports; wrought-iron brackets and fern stands; plastic and lead flower pin frogs; can cutters; green moss in bales and bags; plant ties and twine; plastic pots and trellises; copper, brass and plastic planters; wire plant markers and plastic plates, and other nursery supplies.

### WIRE BASKET COMPANY

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sociation's group insurance representative. Mr. Jones spoke about health insurance for nurserymen, their wives and employees and about the plan for comprehensive liability and life insurance offered through the association.

The group insurance program was launched by the Los Angeles chapter and now includes 10 chapters as subscribers.

Ralph Curtis, Mound Nurseries, Ventura, moved that the insurance program be studied by the chapter and, after complete information has been provided by Mr. Jones, proposed to the members. The motion was approved.

Thirty-six members and guests were present; among the guests noted were David Millard and Ben Kipridakis, of California Polytechnic College, and Pat Wolfe, of Fillmore.

Walter J. Knecht

## TWO REDWOOD MEETINGS

The 105th and 106th meetings of the Redwood Empire chapter of the California Association of Nurserymen were recently held and plans for Arbor day were considered. After considerable discussion, a motion was made and seconded to set up two committees, one each for Marin and Sonoma counties, to arrange the donation of approximately \$25 worth of trees by each group. The Sonoma committee consists of Joe Badger, Santa Rosa; Wally Leiser, Petaluma, and Henry Martin, Sebastopol. Pat Flynn, San Rafael; Ernest Munson, San Anselmo, and Jack Alverado, San Anselmo, are members of the Marin committee. Both groups plan to promote the association by presenting trees to the schools within the counties.

Joe Badger suggested that the association make a list of the members available for talks at garden and service clubs. The nurserymen discussed whether or not the speakers should charge a fee and it was decided that talks should be made free of charge. A list of speakers and subjects on which they are prepared to talk is to be made up and distributed to local clubs.

Clyde von Grafen, Santa Rosa, reported progress on the fair exhibit. A landscape designer will be hired to prepare the exhibit which, it was decided, will feature tuberous begonias. Wally Leiser, of Petaluma; Jim Gaddis, of Santa Rosa, and Hugh Wallace, of San Rafael, were appointed to choose a designer.

The possible project of classifying and marking trees and shrubs in the city parks was suggested by Joe

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There's something about a rose—  
She stands so straight and tall.  
She's justly proud to be proclaimed  
The Queen of Flowers, all!

There's grandeur in her bearing—  
Majestic, serene and sure.  
Her elegance, grace and beauty  
No other flower can out-allure.

She's not exotic as the orchid,  
Nor wistful as pansy faces.  
She's not towering as the hollyhock,  
Nor fragile as daisy laces.

There's SOMETHING about a ROSE  
That sets her far apart.  
I think this special something  
Is her gift from God's own heart!  
V. E. W.

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of

*California Grown—Quality Known*

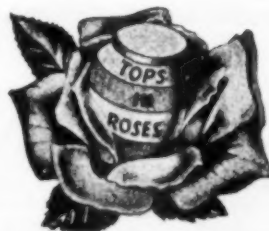
# TOPS IN ROSES

## WEEKS WHOLESALE ROSE GROWER

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PATENTED ROSES: Offered under license from the patent owners.  
(Offered subject to prior sale—please wire on large quantities)

		HYBRID TEAS		Each			
No.	No.			10 to	20 to	100 to	250
1	1 1/2*			19	99	249	and up
500	400	CAPISTRANO, pink		\$1.25	\$1.12 1/2	\$1.05	\$0.95
250	80	DIAMOND JUBILEE, buff		1.10	1.00	.95	.85
250		ECLIPSE, yellow		1.00	.87 1/2	.80	.75
900	500	FRED HOWARD, yellow bicolor		1.40	1.25	1.20	1.10
150	100	GRANDE DUCHESSE CHARLOTTE, red		1.00	.87 1/2	.80	.75
600	40	HEART'S DESIRE, red		1.00	.87 1/2	.80	.75
300	300	LOWELL THOMAS, yellow		1.10	1.00	.95	.85
250	20	MARY MARGARET McBRIDE, pink		1.00	.87 1/2	.80	.75
280	160	McGREY'S SUNSET, yellow		1.00	.87 1/2	.80	.75
700	1200	PEACE, yellow-pink		1.40	1.25	1.20	1.10
900	700	SUTTER'S GOLD, yellow		1.25	1.12 1/2	1.05	.95
350	150	SUZON LOTHE, pink		1.40	1.25	1.20	1.10
		FLORIBUNDAS					
250	300	MA PERKINS, coral-shell		1.25	1.12 1/2	1.05	.95
		CLIMBERS					
480	100	ALOHA CL., everblooming pink		1.40	1.25	1.20	1.10
168	20	CL. HINRICH GAEDE, bicolor		1.00	.87 1/2	.80	.75
400	300	CL. PEACE, yellow bicolor		1.40	1.25	1.20	1.10
420	100	KING MIDAS, yellow		1.10	1.00	.95	.85

\*No. 1 1/2 grade at 20% discount from prices listed.  
F.O.B. Portland, Ore.



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Wholesale Rose Growers

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Portland 13, Ore.

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Daffodils

Iris

FOR THE FINEST IN  
BUSH and CLIMBING  
ROSES



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Teas, Floribundas and Climbers. Both standard  
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plant labels have been tested by nur-  
serymen and proved superior—easy to  
read—easy to use—longlasting. Ordina-  
ry pencil will not wash off and the  
labels will not damage plants and trees.  
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## EVERGREEN LINERS

Rhododendrons Camellias  
Azaleas Andromeda Conifers

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**J. B. WHALLEY**

Rt. 2, Box 212

Troutdale, Oregon

Badger. No action was taken on it.

Harold Prickett, Santa Rosa, an-  
nounced that there would be a board  
of directors' meeting in Santa Mon-  
ica on March 17.

Both meetings of the Redwood  
Empire chapter closed with talks by  
guests. The 105th meeting featured  
a showing of color slides of the Ha-  
waiian islands by Dr. and Mrs.  
Richards, of Santa Rosa. At the  
106th meeting, Tom Ludeke, of the  
Pacific Gas & Electric Co., spoke  
to the group comparing present  
times with the fabulous gold rush  
days. The increase in business for  
the nurserymen from homeowners  
will compare in value, he said, to the  
gold taken in 1849.

## CALIFORNIA NOTES

The death of Henry Dehm, 89, in  
a San Jose hospital on January 29  
was sad news to his many friends in  
the nursery business. He had been  
the owner and manager of an orna-  
mental nursery in the Eureka area  
until he left to come to San Jose in  
1913. From then until the second  
world war stopped his activities he  
harvested and sold seeds of native  
California trees and shrubs. He  
shipped to many foreign countries as  
well as to all parts of the United  
States. Around 1944, transportation  
restrictions curtailed his operations.  
He has no known survivors.

Gene Inouye, who was a vegetable  
grower near the Bayshore high-  
way outside of San Jose, has given  
up that business and entered the  
lawn maintenance business. The land  
on which he had been farming has  
been zoned for light industries and  
is now too costly for farming.

The January issue of the Horticul-  
tural Journal contains an article by  
Harriet Agard about the art of  
dwarfing trees. It may be bought for  
75 cents from the offices of the Cali-  
fornia Horticultural Society, room  
1031, 300 Montgomery street, San  
Francisco. There are several other  
articles in that issue which are of  
general interest to the nurserymen.

The national garden program  
sponsored by the advisory commit-  
tee of the National Garden and  
Home Food Preservation group  
consists of four recommendations  
for the current year. They are (1)  
increased home production, con-  
sumption and preservation of home-  
grown fruits and vegetables; (2) in-  
creased consumption and preserva-  
tion of fresh commercial supplies of  
fruits and vegetables; (3) an ex-  
panded educational program in the  
proper preparation and use of  
vegetables and fruits to insure a



more bountiful, varied and balanced diet, and (4) improvement and beautification of home grounds and communities through the use of better lawns, shrubs, trees and flowers. Most nurserymen would agree that the objectives of this group are to be commended.

Assemblyman L. Stewart Hinckley, of San Bernardino county, has introduced a recommendation which has been approved by the budget committee of the California state legislature to appropriate \$125,000 to the University of California research funds for the purpose of studying methods for the control of nematodes in field crops and under field conditions.

The death of Marie Hauss Jones was recently announced at Yuba City. Mrs. Jones was a daughter of the late Ferdinand Hauss, who developed the Hauss cling peach, which for many years was the most commonly grown variety of cling peach in northern California orchards. It is still found in many of them, though in newer plantings it is being superseded by later varieties.

In a recent issue of the Sacramento Bee there was an item saying that "Judging from the loads of young trees that are daily being carted through the streets, the nurserymen in this area ought to be doing a large business." Sacramento is near the center of much of the early fruit production of this state and its streets are well-planted with ornamental trees, mostly elms.

The annual camellia sale at Sacramento was held February 7 through 15. At this time most of the nurseries at and around the city hold a general reduction sale of camellia plants. This is done in cooperation with the local camellia society, which shares in the proceeds of the sales. The annual camellia show was held on March 7 and 8 and following was held the annual camellia planting drive. It is the plan of the camellia society to have at least one plant on every piece of property at that city.

The Northern California Gladiolus Society recently announced that the third annual Pacific international gladiolus show will be held in the Sacramento memorial auditorium on July 18 and 19. This is one of three shows sponsored by the American Gladiolus Council each year. Funds for the show will be in part provided from a gladiolus sale which the local group sponsored early in February. During the sale the buyers were given advice on how to grow the flower so as to have blooms in

## FIRS, PFITZERS, PYRAMIDALS

Choice, field-grown, well-rooted lining-out stock

*Pseudotsuga douglasii* (Douglas Fir) (Colorado silver-gray strain)

100 1000

One of the conifers of great commercial value of the Pacific coast. Native British Columbia to Mexico and eastward to Montana and Colorado. Reaches a height of 200 feet or more, being among the tallest trees in the world, and a diameter of 12 feet. Good dark green foliage. We are offering the Colorado silver-gray strain, considered the best for ornamental purposes. A truly stately tree, and, while it reaches great size and height, it also possesses great ornamental values when introduced into landscaping plans. In its native haunts the younger trees and groups of trees have a most impelling appeal both in form and coloring.

3 to 6 inches, once transplanted ..... \$10.00 \$ 80.00

*Juniperus chinensis pfitzeriana* (Pfitzer Juniper)

This well-known juniper can scarcely be excelled for terrace and mass planting. Upright training gives it a very individual habit of growth and greater range of landscape uses. It is hardy and a rapid, vigorous grower and thrives under adverse conditions of soil and climate. It has fine green foliage which, with a little pruning, forms a dense mass. Broadly spreading, reaching in older trees a diameter of 20 to 25 feet or more. Probably the most universal favorite of all junipers of its type.

3 to 6 inches, once transplanted ..... 16.00 128.00

*Thuja occidentalis pyramidalis* (American Pyramidal Arborvitae)

A most desirable arborvitae of narrow columnar growth, dense and compact without pruning. Planted in groups, it produces a most impressive alpine effect. In situations where effective hedges requiring but little space are desired, Pyramidal Arborvitae has no counterpart. The hedge becomes a solid wall of green from 4 to 20 feet in height as desired and occupies only 2 feet in width. For hedges, trees should be planted 18 inches apart. A Pyramidal Arborvitae hedge requires scarcely any care.

3 to 6 inches, once transplanted ..... 13.00 104.00

6 to 9 inches, once transplanted ..... 16.00 128.00

25 plants at the 100 rate; 250 plants at the 1000 rate. These are all nice hand-selected, carefully graded plants. Prices include packing and delivery to all points. Much other evergreen lining-out stock available.



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budded on Multiflora in over  
250 varieties.

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Rt. 2, Box 96

GRESHAM, OREGON



**OREGON ROSES****PRICE SCHEDULE**

	10 to	20 to	100 to	250
Retail	19	99	249	and up
\$1.50	\$0.90	\$0.75	\$0.70	\$0.65
1.75	1.00	.87½	.80	.75
2.00	1.10	1.00	.95	.85
2.25	1.25	1.12½	1.05	.95
2.50	1.40	1.25	1.20	1.10
Grade	No. 1½	80% of above	prices.	

Retail	PATENTED	No.
Each	No. 1	1½
\$2.25	Bravo	106
2.25	Capistrano	153
2.50	Charles Mallerin	140
2.50	Fred Howard	95
2.50	Happiness	106
2.00	New Yorker	108
2.50	Peace	500 500
1.75	Show Girl	148
2.25	Sutter's Gold	200 100
2.00	Tallyho	122

PATENTED CLIMBERS	No.
\$2.50 Cl. Aloha	50 10
2.50 Cl. Peace	300 150
2.00 Cl. Picture	60 39
2.00 Cl. Show Girl	150 80
2.00 Cl. Summer Snow	130 10
2.00 Crimson Glory	100 42
2.00 J. H. Nichols	210 120

PATENTED FLORIBUNDAS	No.
\$1.75 Pinkie	40 50
1.50 Tapis	90 45
2.00 Valentine	68
2.25 Vogue	250

**STANDARD CLIMBERS****PRICES:**

55c ea. per 100—53c ea. per 1000.	
City of York	298
Cl. American Beauty	430 180
Cl. Blaze	1114 686
Golden Climber	137 37
Mrs. Erskine Pembroke Thom	442 124
New Dawn	100 170
Paul's Scarlet	266 36
President Hoover	150 180

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ROUTE 2, BOX 880 ROSEBURG, ORE.

**America's Largest Selection****FLOWERING CRABS**

40 varieties to choose from, including varieties such as:

Atrosanguinea	Hupehensis
Dolgo	Purpurea
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(weeping)	
Red Silver	Toringoides

Also Fruit trees Shade trees  
Shrubs

Send for Catalog. (Use your letterhead.)

**RICH & SONS NURSERY**

Hillsboro, Oregon

**DAPHNE CNEORUM**

(Variegated)  
Rooted cuttings, \$8.50 per 100, postpaid.  
Good count. Good strain.

**PORTLAND CLEMATIS NURSERY**

1312 S. W. Taylors Ferry Rd.  
Portland 19, Ore.

time for exhibition in the show. There was also an auction on the newer kinds at the end of the sale.

The need for deep irrigation for most growing crops was the theme at the 2-day sprinkler conference, held at the Davis campus of the University of California. The desirability of such a practice for grasses was demonstrated by results obtained by Dr. Robert M. Hagan, assistant irrigation technologist at the college.

The bay area's annual turf conference will be held on October 8. No place for the meetings has yet been selected. Similar meetings will be held in the Los Angeles area on October 12 and 13.

The Peninsula chapter of the California Association of Nurserymen sponsored a contest for viewers of its weekly television program. Winners writing a letter starting "How my nurseryman can make my shopping easier and more pleasant" will receive a first prize of \$50 and a second prize of \$25. Both awards are paid in cash.

W. B. B.

**OREGON COUNCIL MEETS**

The Oregon bulb, florist and nursery council of the Oregon Association of Nurserymen recently met at Portland, Ore., to consider a new proposal for legislation sponsored by the bulb growers after the florists turned down a former proposal made by them. The new proposal is as follows:

1. Legislation should be in the form of an amendment to the present nursery licensing statute and confined entirely to field-grown longiflorum bulbs.

2. Because of special credit and security risk problems, legislative hearings would have to be scheduled, with the following provisions:

Dealers or brokers buying such field-grown lily bulbs in substantial quantities for sale outside the state would be required, as a condition of their right to make such purchases in Oregon, to consent to suit or action in the courts of the state of Oregon for any part of the purchase price growing out of purchase of such bulbs. Such consent should be in writing and filed with the state department of agriculture, division of plant industry. Should a dealer refuse to sign such a statement, he would be required to show that he had at least \$5,000 in property, or he would be required to post a bond of \$5,000. The bond would permit either the aggrieved grower or the state department of agriculture to sue.

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GOOD ROSES**

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French Apple Seedlings, Str. and Br.  
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Umsuriensis Pear Seedlings  
Mahaleb Cherry Seedlings  
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Myrobalan Plum Seedlings  
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Angers Rooted Quince Cuttings  
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John Holmason & Sons, Props.

**ROSES—TREE ROSES**

A fine selected list including patented varieties. Highest quality — all field-grown.

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**PRONOUNCING DICTIONARY  
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64 pages, 3000 names, 25¢ per copy  
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## TREE HARVESTING MACHINE

Harvesting trees for transplanting at the M. Oki & Sons Nursery, Perkins, Calif., is now done by a specially constructed machine, which was described in a recent issue of the Sacramento, Calif., Bee.

The machine straddles a row of young trees, the driver sitting nine feet above the ground, his seat mounted over the nearly square, flexible tracks. The trees, some of them over 15 feet tall, are bent into a 6-foot funnel under the radiator while a big, horseshoe-shaped bar running from 19 to 22 inches below the surface of the soil slices off the roots.

A pair of prongs at the back of the horseshoe bar points upward. The root systems of the young trees are carried up on this and dropped back in place. This loosens them so workers can pull them easily by hand in the first step of the transplanting process.

Richard and George Oki, who are carrying on the nursery business started by their father, Magoichi Oki, before World War I, said the new machine can harvest 800 trees in a 360-foot row in two minutes, on the average.

By comparison, the brothers noted, the cable and winch method requires three men and 15 minutes to cut the roots on the same number of young trees. The picking up time for the loosened trees is not counted on either estimate.

The machine was sketched by the brothers after they had seen pictures of a similar device built by H. H. Conklin, of Los Angeles. Mr. Conklin was using his machine to pull rosebushes in a nursery operation there, so the Oki's sent a representative of a Sacramento tractor company's machine shop to look it over. The three men then adapted the idea to the needs of the tree harvesters, built a taller model of the rose puller and added a few extra features to increase its efficiency.

The tractor pulled 300,000 trees in 32½ hours of operation on a tree farm in Placer county, which had growing, among others, some 20-foot Lombardy poplars. The machine, the brothers said, seemed to show an extra advantage in the rocky soil. Its 1,000 pounds of weight merely pushed aside any small subsurface rocks it ran into.

It is not only quicker, they said, but easier as well. "It was a real back-breaking job to pull 300 feet of half-inch steel cable around the orchard."

## MAHONIA

### *Mahonia aquifolium* (Oregon Grape)

An ornate little evergreen shrub, native of Oregon, where it is much loved and enjoyed. Leaves are holly-like and bright green. Has long clusters of bright golden-yellow flowers in the spring, followed by bunches of bright blue, grape-like berries, which are sometimes used for jelly making. Attractive in foliage, flower and fruit. Also fine for interior decorative purposes. Some leaves take on autumn tints of crimson, deep red, bronze and gold. The shrub is at its best in group plantings. One of the hardiest of the broad-leaved evergreens.

3 to 6 ins., not transplanted	100	1000
6 to 9 ins., not transplanted	\$ 9.00	\$ 72.00
9 to 12 ins., not transplanted	12.00	96.00
3 to 6 ins., once transplanted	15.00	120.00
	12.00	96.00

### *Mahonia nervosa* (Longleaf Hollygrape)

Plants grow 12 to 18 inches tall. The leaves, which are 12 to 18 inches long, are beautifully fernlike in form. Flowers are bright golden yellow, followed by bunches of bright blue, grape-like fruit. The foliage is dark green turning to most beautiful shades of brilliant red and bronze in the fall. Does well in sun or shade. Thrives under conifers. Very hardy. One of the very best of Oregon's native shrubs.

3 to 6 ins., not transplanted	100	1000
	\$9.00	\$72.00

25 plants at the 100 rate; 250 plants at the 1000 rate. These are all nice hand-selected, carefully graded plants. Prices include packing and delivery to all points. Much other evergreen lining-out stock available.



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PROPAGATORS AND GROWERS  
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306 S. E. 12th AVENUE

Avery H. Steinmetz

PORTLAND 14, OREGON

Paul E. Van Allen

## Quality Stock

CONIFERS AND BROAD-LEAVED  
EVERGREENS  
SHADE AND FLOWERING TREES  
FRUIT TREE SEEDLINGS  
FRUIT TREES  
DECIDUOUS SHRUBS  
VINES AND BULBS  
PORTLAND ROSES  
NURSERY SUPPLIES

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C. Bert Miller, Pres. and Gen. Mgr.  
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General Nursery Stocks  
**SPECIALTIES**

BIRCH—Cutleaf Weeping  
CHERRY—Japanese Flowering  
CRAB—Flowering  
ELM—Chinese (*Ulmus pumila*)  
HAWTHORN—Paul's Scarlet  
LOCUST—Moraine, Patent No. 836  
MAPLE—Greenleaf Sycamore  
—Purpleleaf Sycamore  
—Norway (3 to 4 ft. and 4 to 5 ft. wh.)  
—Red (*Acer rubrum*)  
MOUNTAIN ASH—European

FRUIT TREE SEEDLINGS  
ANGERS QUINCE—Rooted cuttings

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Our combination carlots to eastern distributing points save transportation cost.

## A. MCGILL & SON

FAIRVIEW, OREGON

Wholesale only

FRUIT TREE SEEDLINGS  
FLOWERING ORNAMENTAL TREES  
SHADE TREES

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Instructions for the next issue must be received by Monday, March 16.

## AZALEAS

### AZALEAS

MOLLIS seedlings  
ALTA CLARENSIS seedlings Each  
3 to 5 ins., mostly branched ..... 10c  
2 to 4 ins., single stem ..... 5c

HAZEL DELL GARDENS Canby, Ore.

### AZALEA MOLLIS

From twice-transplanted field beds, bare-root 8 to 12 ins., bushy, with buds, in assorted colors. 65c each per 50 or more, including crating. Less than 50, 10 per cent plus. Cash with order.

RICHARD P. RESSEL Mulino, Ore.

## BERRY PLANTS

### STRAWBERRY PLANTS

	Per 1000
Blakemore .....	\$ 7.50
Sen. Dunlap .....	7.50
Aroma .....	7.50
Klondyke .....	7.50
Premier .....	10.00
Tennessee Beauty .....	10.00
Gem (Everbearing) .....	13.50

ANNA NURSERY  
E. G. Anderson, Prop.  
Anna, Ill.

Schwab Gooseberries, large as plums, new seedling (world's largest Gooseberry). Berries often 1½ ins. in diameter, highest quality, hardy, very productive, very sweet, 1-yr. heavy, \$6.50 per 10; 2-yr. light, \$7.50 per 10; bearing size, \$10.00 per 10. Pixwell Gooseberries, 2-yr. No. 1, \$2.50 per 10; \$30.00 per 100. 5 per cent discount for cash or free billing. All plants that die replaced at half price.

SCHWAB FRUIT FARM & NURSERY  
220 N. 5th St. Mankato, Minn.

	Per 1000
Latham Red Raspberries, 1-yr., T. ....	\$60.00
2-yr., T. ....	75.00
1-yr. Suckers .....	50.00
Durham Red Everbearing, 1-yr., T. ....	80.00
Sodus, No. 1 Tips .....	50.00
Cumberland, No. 1 Tips .....	30.00
Bristol, No. 1 Tips .....	35.00
Dundee, No. 1 Tips .....	35.00

C. H. BENEDICT  
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STRAWBERRY PLANTS—Double-inspected, northern-grown, Dunlap, Beaver, Blakemore, \$7.50 per 1000; 10,000 up, \$7.00 per 1000. Premier, Giant Robinson, Bellmar, \$9.00 per 1000; 10,000 up, \$8.00 per 1000. Giant Gem, Streamliner, Minnesota 1166 Everbearing, \$17.00 per 1000; 10,000 up, \$16.00 per 1000. These are young, healthy, fresh-dug plants, guaranteed to reach you in good growing condition.

IOWA NURSERY Farmington, Ia.

Certified Strawberry Plants. Properly grown, dug, cleaned and packed. Nice large, attractive plants for your counter display. Blakemore, Tennessee Beauty, Robinson, Dunlap, Missionary, Klondyke, \$6.00 per 1000. If you are interested in having plants for late orders placed on cold storage, please write:

ROMINES PLANT FARM  
Phone 241-R Dayton, Tenn.

"Brunes Jewel"—Brand-new everbearing strawberry. Heavy bearer of extra-large, sweet berries, red all through. Plants are large and dark green, very healthy and lots of runners, many of which bear soon after runners set root. A real everbearer. \$4.00 per 25; \$12.00 per 100.

BRUNES STRAWBERRY NURSERY  
Pequot Lakes, Minn.

	Well-rooted
1 to 4 ins. ....	\$ 6.00 per 100
No. 1 .....	50.00 per 1000
	5.00 per 100
	40.00 per 1000

CHAMPION NURSERIES  
Perry, O.

RASPBERRY PLANTS—Revolutionary, new Durham, off-season, red raspberry. Bears mid-August to November. Wholesale prices on request. Also strawberries—New, Maine 55, Monmouth, Orland, Erie, Eden, Vermilion, Sioux and 25 other standard and everbearing varieties. Catalog free.

WALTER K. MORSS & SON Bradford, Mass.

Raspberry plants, Latham and Newburgh. No. 1 hardy, Montana-grown plants from new patch. Approximately 200,000 plants at \$37.50 per 1000. Write for prices on large amounts.

McNEAL BERRY NURSERY  
Hamilton, Mont.

EVERBEARING STRAWBERRIES  
Per 1000: Gem, \$12.00; Superfection, \$15.00; Streamliner, \$16.00. 20th Century or Utah Centennial, Latham and Newburgh Raspberries, \$35.00 per 1000.

DAN'S PLANT FARM Hamilton, Mont.

RASPBERRIES—No. 1 Tips, Cumberland—\$4.00 per 100, \$35.00 per 1000; 2000 or more, \$30.00 per 1000.

WAYNESBORO NURSERIES  
Waynesboro, Va.

THORNLESS BOYSENBERRIES—\$4.00 per 100, \$35.00 per 1000; 2000 or more, \$30.00 per 1000.

WAYNESBORO NURSERIES  
Waynesboro, Va.

Durham everbearing red raspberry, \$12.00 per 100; \$100.00 per 1000. Packing free.

F.O.B. Marshalltown.

WHEELOCK WILSON NURSERY  
Marshalltown, Ia.

Heavy, well-rooted No. 1 Latham Red Raspberries. Freshly dug. \$50.00 per 1000.

PAUL'S NURSERY, R. D. 3, Shelby, O.

Turn Stock into Dollars  
by Listing It in the Classified Ads  
of the American Nurseryman.

## BULBS and TUBERS

### DAHLIAS LARGE-FLOWERING

	Each
AVALON (yellow) .....	12c
BRONZE BALL (bronze and gold) .....	12c
CROWN OF GOLD (red and gold) .....	18c
D. DAY (rose-pink) .....	20c
GALLANT FOX (red) .....	10c
GEMMA CLARA (yellow) .....	25c
GOLDEN ECLIPSE (yellow) .....	15c
IMP. GOLD MEDAL (gold and red) .....	18c
JANE COWL (bronze-yellow) .....	16c
JEAN KERR (white) .....	20c
JERSEY'S BEAUTY (pink) .....	14c
KENTUCKY (orange) .....	20c
LADY IN RED (red) (Cactus) .....	25c
LE TOREADOR (red) .....	12c
MARIE (salmon-pink) .....	20c
MICHIGAN WHITE (white) .....	20c
MRS. G. LE BOUTILLIER (velvety carmine) .....	12c
MRS. I. DE VER WARNER (lavender) .....	18c
MRS. JAMES ALBIN (yellow) .....	15c
MRS. KUNZMAN (orange and brown) .....	16c
NEW YORK MARKET (white and lavender) .....	15c
ROSE BALL (deep pink) .....	15c
RUBY TAYLOR (vivid red) .....	20c
SUPR. AMBER (lavender-pink) .....	15c
VICTORY (pink and gold) .....	18c
WATCHUNG GIANT (deep yellow) .....	12c
WHITE JERSEY (white) .....	25c
WHITE KING (white) .....	15c
MINIATURE-FLOWERING	
BISHOP OF LLANSODORF (red and red foliage) .....	15c
GRENADIER (orange-red, red foliage) .....	20c
LEMON DROP (yellow) .....	15c
ROXANA (deep purple) .....	20c
SUFFOLK (orange) .....	15c
WHITE FAWN (white) .....	10c
POMPON	
BRONZE BEAUTY (golden-bronze) .....	14c
CARDINAL (bright red) .....	10c
CATHARINE (yellow) .....	10c
EDITH MUELLER (gold and red) .....	12c
GOLDEN QUEEN (yellow) .....	10c
LITTLE HERMAN (red and white) .....	10c
MARY MUNN (lavender) .....	10c
MORNING MIST (white and lavender) .....	10c
YELLOW GEM (yellow) .....	12c

Minimum Order, \$5.00  
Not Less Than 5 of a Variety  
LOUIS DANK  
1170 Broadway New York 1, N. Y.

TUBEROUS-ROOTED BEGONIAS  
Giant-flowering Double Camellia-type.

1½ to 1½ ins. ....	\$ 5.50 per 100	\$ 45.00 per 1000
1½ to 2 ins. ....	8.50 per 100	75.00 per 1000
2 ins. and up. ....	13.50 per 100	125.00 per 1000

Double-flowering Fimbriata Carnation-type.  
6 to 8 colors

1½ to 1½ ins. ....	\$ 6.50 per 100	\$ 55.00 per 1000
1½ to 2 ins. ....	10.50 per 100	95.00 per 1000

LOUIS DANK  
1170 Broadway New York 1, N. Y.

## TUBEROUS-ROOTED BEGONIAS

### Giant Double-flowered

	100	1000
3 ins., Jumbo, Mixed colors .....	\$16.50	\$152.00
2 ins. up, 8 colors .....	13.00	120.00
1½ to 2 ins., 8 colors .....	7.75	70.00
1½ to 2 ins. (single-flowered), 7 colors .....	7.75	70.00
1½ to 2 ins., PENDULA, 5 colors .....	10.50	95.00
1½ to 2 ins., MULTIFLORA, miniature dbl. in 8 named varieties .....	10.00	95.00
1½ to 2 ins., ROSEBUD, two-tone pastel .....	9.50	90.00
1½ to 2 ins., CAMELLIA, beautiful dbl. ....	9.50	90.00

Minimum order, \$10.00

Ask for our GLADIOLUS prices, on straight varieties and collection cases and packages for store sales.

NEAL BULB CO.  
15-18 Ellis Ave. Fair Lawn, N. J.

HARDY LILIUM FORMOSANUM  
Floretum seed-grown; no mosaic; fully acclimated; large, white garden lily, for prairie and central states. Postpaid, per 100,

1-yr. Bulbs to grow on .....

2-yr. Choice blooming size .....

3-yr. Select blooming size .....

PRAIRIE SOUTHWEST FLORETUM  
Fall River, Kan.

GLADIOLUS BULBS  
We have 70 varieties of gladiolus bulbs to offer at wholesale. A post card will bring our listings.

KROH BROS. NURSERIES  
Loveland, Colo.

## CHRYSAANTHEMUMS

### CHRYSAANTHEMUMS

100 magnificent Garden Mums, \$5.00. New giant English Mums, Pompons, Cushions and Buttons.

Plants are healthy, strong, outdoor-grown rooted divisions.

10 varieties—Our selection—Labeled and in well-balanced assortment. Write for list. Terms. Cash with order.

SEVEN MAPLES NURSERY  
North Collins, N. Y.

Write for our 1953 Wholesale List featuring Popular and Choice SUMMER-FLOWERING MUMS and top PERENNIALS.

CORLISS BROS. INC. NURSERIES  
15 Reynard St. Gloucester, Mass.

## DAISIES

### SHASTA DAISIES

MARK RIEGEL—Hardy, prolific and beautiful. This giant 4-in., semidouble daisy has outstanding qualities. Doz., \$4.00; '100, \$20.00.

STONE MOUNTAIN—This large, wide-petaled daisy has proved the hardest heat and drought-resistant daisy we have ever grown. Doz., \$5.00; 100, \$30.00.

MAYFIELD GIANT—An old standard. Doz., \$2.00; 100, \$3.00.

50 at 100 rate.  
RIEGEL PLANT CO. Experiment, Ga.

SHASTA DAISY—EARLY BOUQUET  
Earliest of all. Grows outside for Mothers' day. Cuts and nursery sales. Rooted div., 100, \$8.00.

PRAIRIE SOUTHWEST FLORETUM  
Fall River, Kan.

## EVERGREENS

### PICEA OMORICA PANCIC

In their habitat the slender trunks reach a height of 100 to 130 ft. and bear relatively short branches. Their thick crown is almost column-shaped; the needles are flat like fir. The Picea Omorica is the decorative tree par excellence of high architectural effect, because of its crown's descending to the soil with down-hanging twigs, the ends of which set themselves upright in soft curves. The upper branches are adorned with the delicate cones in various hues which form an exceedingly nice contrast with the dark green and silver-gray needles.

This tree is recommended for ornamental purposes and as a park tree. It is absolutely frost hardy. And it is not susceptible to being poisoned by smoke.

GIBRALTAR (LEWIS) NURSERY  
R. D. 1 Birdsboro, Pa.



LINING-OUT LIST  
PRICES SUBJECT TO CHANGE  
WITHOUT NOTICE.  
ALL POTTED LINERS ON THIS LIST  
ARE PRICED FOR SHIPMENT IN PAPER  
POTS OR CUPS. THOSE WHO PREFER  
THE ORDINARY METHOD OF PACKING,  
OMITTING THIS ADDED PROTECTION,  
MAY DEDUCT 10 PER FLAT.  
The 1000 rate applies on all orders; there-  
fore, please order in multiples of 25 or more.

EACH	
BIOTA AUREA NANA BERCKMANS	
8 to 10-in. liners.....	\$0.18
*2 1/2-in. pots.....	.18
6 to 8 ins., TTT, field-grown.....	.40
8 to 10 ins., TTT, field-grown.....	.45
BIOTA BAKERI	
2 1/2-in. pots.....	.14
2 1/2-in. pots.....	.15
8 to 12 ins., TTT, field-grown.....	.30
12 to 15 ins., TTT, field-grown.....	.35
BIOTA BONITA	
*2 1/2-in. pots.....	.16
6 to 8 ins., TTT, field-grown.....	.40
8 to 10 ins., TTT, field-grown.....	.45
BIOTA EXCELSA	
*2 1/2-in. pots.....	.18
8 to 12 ins., TTT, field-grown.....	.30
12 to 15 ins., TTT, field-grown.....	.35
BIOTA SIBYLI	
*2 1/2-in. pots.....	.18
2 1/2-in. pots.....	.20
8 to 12 ins., TTT, field-grown.....	.30
12 to 15 ins., TTT, field-grown.....	.35
CEDRUS DEODARA	
4 to 6-in. seedlings, 2-yr.....	.05
6 to 8-in. seedlings, 2-yr.....	.07
*2 1/2-in. pots.....	.20
JUNIPERUS CHINENSIS FORAMIDALIS	
*2 1/2-in. pots.....	.24
8 to 12 ins., TTT, field-grown.....	.35
12 to 15 ins., TTT, field-grown.....	.40
JUNIPERUS CHINENSIS PFITZERIANA	
*2 1/2-in. pots.....	.17
JUNIPERUS CHIN. PFITZERIANA	
COMPACTA	
2 1/2-in. pots.....	.19
JUNIPERUS COMMUNIS COL. COMPACTA	
8 to 12 ins., TTT, field-grown.....	.30
12 to 15 ins., TTT, field-grown.....	.35
JUNIPERUS COMMUNIS KIYONOI	
*2 1/2-in. pots.....	.20
6 to 8 ins., TTT, field-grown.....	.30
8 to 12 ins., TTT, field-grown.....	.35
12 to 15 ins., TTT, field-grown.....	.40
JUNIPERUS GLAUCA HETZI	
2 1/2-in. pots.....	.18
*2 1/2-in. pots.....	.20
6 to 8 ins., TTT, field-grown.....	.35
JUNIPERUS HIBERNICA FASTIGIATA	
2 1/2-in. pots.....	.16
8 to 12 ins., TTT, field-grown.....	.35
JUNIPERUS VIRGINIANA KETELEERI	
*2 1/2-in. pots.....	.25
TAXUS CUSPIDATA	
*2 1/2-in. pots.....	.15
*2 1/2-in. pots.....	.17
THUJA OCCIDENTALIS PYRAMIDALIS	
2 1/2-in. pots.....	.16
2 1/2-in. pots.....	.16
2 1/2-in. pots.....	.18
ABELIA GRANDIFLORA	
2 1/2-in. pots.....	.14
2 1/2-in. pots.....	.16
(Flats—175 rooted cuttings—	
\$17.50 per Flat.)	
BUXUS JAPONICA	
2 1/2-in. pots.....	.14
3 1/2-in. pots.....	.16
6 to 8 ins., TTT, field-grown.....	.16
8 to 10 ins., TTT, field-grown.....	.20
10 to 12 ins., TTT, field-grown.....	.25
BUXUS SEMPERVIRENS	
Rooted cuttings.....	.05
4 to 6 ins., TT, bed-grown.....	.08
6 to 8 ins., TT, bed-grown.....	.10
1 1/2 x 2 1/2-in. Vita-Bands.....	.12
2 1/2-in. Vita-Bands.....	.14
BUXUS SUFRUTICOSA	
Rooted cuttings.....	.07
4 to 6 ins., TT, bed-grown.....	.10
1 1/2 x 2 1/2-in. Vita-Bands.....	.12
2 1/2-in. Vita-Bands.....	.14
CAMELLIA SASANGUA MAIDEN'S	
BLUSH	
2 1/2-in. pots.....	.10
3 1/2-in. pots.....	.12
5-in. pots.....	.30
CAMELLIA SASANGUA	
MINE-NO-YUKI	
2 1/2-in. pots.....	.10
CAMELLIA SASANGUA ROSEA	
2 1/2-in. pots.....	.10
2 1/2-in. pots.....	.12
CORNUS FLORIDA, grafting grade	
6 to 8 ins., TTT, field-grown.....	.15
8 to 12 ins., TTT, field-grown.....	.15
ELAEAGNUS FRUITLANDI	
2 1/2-in. pots.....	.19
*2 1/2-in. pots.....	.20
EUONYMUS PATENS SIEBOLDIANUS,	
Large Leaf	
1 1/2 x 2 1/2-in. Vita-Bands.....	.12
EUONYMUS PATENS SIEBOLDIANUS,	
Small Leaf	
1 1/2 x 2 1/2-in. Vita-Bands.....	.11
1 1/2 x 2 1/2-in. Vita-Bands.....	.12
(Flats—130 rooted cuttings—	
\$10.40 per Flat.)	
GARDENIA FORTUNEI	
2 1/2-in. pots.....	.12

(Continued in next column)

(Continued from previous column)

(Flats—130 rooted cuttings— \$10.40 per Flat.)	Each
ILEX CORNUTA BURFORDI	
2 1/2-in. pots.....	.18
*2 1/2-in. pots.....	.20
ILEX CRENATA CONVEXA BULLATA	
2 1/2-in. pots.....	.19
2 1/2-in. pots.....	.20
3-in. pots, extra-heavy.....	.35
ILEX CRENATA ROTUNDIFOLIA	
2 1/2-in. pots.....	.18
2 1/2-in. pots.....	.19
ILICICUM ANISATUM	
2 1/2-in. pots.....	.18
JASMINUM FLORIDUM	
2 1/2-in. pots.....	.13
(Flats—175 rooted cuttings— \$10.50 per Flat.)	
LAUROCERASUS CAROLINIANA	
2 1/2-in. pots.....	.14
LIGUSTRUM JAPONICUM	
2 1/2 to 4-in. seedlings.....	.01
4 to 6-in. seedlings.....	.01 1/2
6 to 8-in. seedlings.....	.02
(Flats—1 1/2 x 2 1/2 ins. Bands— 8x12 ins.—90 bands to the Flat, per Flat—\$4.50.)	
LIGUSTRUM LUCIDUM COMPACTUM	
2 1/2-in. pots.....	.17
2 1/2-in. pots.....	.18
LONGICERA FLAMING BEAUTY	
2 1/2-in. pots.....	.15
MAGNOLIA GRANDIFLORA	
3 to 4-in. seedlings.....	.04
4 to 6-in. seedlings.....	.06
6 to 8-in. seedlings.....	.08
2 1/2-in. pots.....	.13
2 1/2-in. pots.....	.14
MAGNOLIA SOULANGEANA	
3 1/2-in. pots.....	.41
MAGNOLIA SOULANGEANA NIGRA	
*2 1/2-in. pots.....	.26
3-in. pots.....	.28 1/2
3 1/2-in. pots.....	.31
NANDINA DOMESTICA	
3 to 6-in. seedlings.....	.06
2-in. pots.....	.09
2 1/2-in. pots.....	.10
*2 1/2-in. pots.....	.12
PYRACANTHA BELLI	
2 1/2-in. pots.....	.16
PYRACANTHA YUNNANENSIS	
*2 1/2-in. pots.....	.18
VIBURNUM TINUS	
2 1/2-in. pots.....	.14
2 1/2-in. pots.....	.16
SPECIAL NOTICE: Items marked by asterisk (*) delivery Spring, 1953. All items not so marked ready for shipment now or later to suit customers' requirements.	
T. G. OWEN & SON, INC. Columbus, Miss.	
ROOTED CUTTINGS	
	Each
	Per 100
Euonymus Coloratus, 4 to 6 ins.....	\$0.09
Euonymus Vegetus, 4 to 6 ins.....	.09
Taxus Hicksi, 4 to 6 ins.....	.10
LINING-OUT STOCK	
Euonymus Vegetus, 1-yr., T. 6 to 8 ins.....	.16
Juniper, Andorra, 1-yr., T. 4 to 6 ins.....	.18
Juniper, Irish, 1-yr., T. 4 to 6 ins.....	.20
Juniperus Glauca Hetzi, 1-yr., T. 4 to 6 ins.....	.20
Juniperus Pfitzeriana, 1-yr., T. 4 to 6 ins.....	.20
Juniperus Prostrata, 1-yr., T. 4 to 6 ins.....	.25
Taxus Andersoni, 1-yr., T. 4 to 6 ins.....	.18
Taxus Capitata, 1-yr., T. 4 to 6 ins.....	.18
(Cuttings)	
Taxus Cuspidata, 1-yr., T. 6 to 8 ins.....	.18
Taxus Hicksi, 1-yr., T. 4 to 6 ins.....	.18
Thuja Elegantissima, 1-yr., T. 4 to 6 ins.....	.18
Thuja Ellwangeriana, 1-yr., T. 4 to 6 ins.....	.16
Thuja Nigra, 1-yr., T. 4 to 6 ins.....	.16
Thuja Occidentalis, 3-yr., T.T.....	.30
Thuja Occidentalis Wareana, 1-yr., T. 4 to 6 ins.....	.16
Thuja Occidentalis Woodwardi, 1-yr., T. 4 to 6 ins.....	.18
Thuja Vervaeana, 1-yr., T. 4 to 6 ins.....	.18
Thuja Vervaeana Aurea, 1-yr., T. 4 to 6 ins.....	.16
Japanese Beetle Certification.	
CRYSTALLAIRE EVERGREEN NURSERY R. D. 2 Slippery Rock, Pa.	
ROOTED CUTTINGS	
	Per 100
Arborvitae Pyramidalis.....	\$ 8.00
Juniperus Glauca Hetzi.....	9.00
Juniperus Vonehron.....	9.00
Taxus Andersoni.....	9.00
Taxus Capitata, leaders only.....	12.00
Taxus Cuspidata.....	9.00
Taxus Hicksi.....	9.00
Taxus Seebian's Intermedia.....	9.00
Booking orders now for May shipment only. Free packing and parcel-post charges prepaid. Cash with order, please.	
EDWARDS EVERGREEN NURSERIES West Lafayette, O.	
CANADIAN HEMLOCK (B&B)	
	Each
2 to 3 ft.....	\$3.25
3 to 3 1/2 ft.....	3.75
3 1/2 to 4 ft.....	4.50
BLACK AMERICAN ARBORVITAE (B&B)	
3 to 4 ft.....	5.00
LAUREL PARK NURSERIES Hatfield Rd. Northampton, Mass.	



## EVERGREENS—Continued

GOLDEN GOOSE LINING-OUT STOCK FROM POTS.		
All quotations are from 2½-in. pots, 1 and 2-yr. old. Grown in open beds under field conditions. Ready for immediate delivery or for reservation.		
Each		
ILEX CRENATA (Japanese Holly), 6 to 8 ins.	.....	\$0.16
ILEX CRENATA BULLATA 4 to 6 ins.	.....	.14
6 to 8 ins.	.....	.16
ILEX CRENATA MICROPHYLLA, 6 to 8 ins.	.....	.16
ILEX OPACA FEMINA (Selected American Holly), 6 to 8 ins.	.....	.20
CHERRY LAUREL (Laurocerasus Caroliniana), 6 to 8 ins.	.....	.12
NANDINA DOMESTICA, 6 to 10 ins.	.....	.10
Our hollies are grown from either cuttings or grafts, from well-berried specimens, insuring berries for you.		
TERMS: Packing without cost. Minimum 50 of a kind please. 25 per cent with order, balance C.O.D.		

EVERGREEN NURSERIES		
Poplar Avenue	Germantown, Tenn.	

## SEEDLINGS FOR SPRING

	Per 100	Per 1000
Scotch Pine, 2-yr., 2 to 4 ins.	.....\$2.00	\$10.00
Scotch Pine, 2-yr., 4 to 6 ins.	.....4.00	20.00
Scotch Pine (Riga), 2-yr., 2 to 4 ins.	.....3.00	15.00
Scotch Pine (Riga), 2-yr., 4 to 6 ins.	.....5.00	25.00
Austrian Pine, 2-yr., 3 to 6 ins.	.....4.00	20.00
American Red Pine, 2-yr., 2 to 5 ins.	.....4.00	20.00
Mugo Pine (Dwarf), 2-yr., 2 to 4 ins.	.....5.00	25.00
Ponderosa Pine, 2-yr., 3 to 8 ins.	.....3.00	15.00
Ponderosa Pine, 4-yr., 8 to 12 ins.	.....5.00	25.00
Red Spruce, 2-yr., 2 to 6 ins.	.....5.00	25.00

## TRANSPLANTS

Scotch Pine, 2-1, 3 to 8 ins.	.....6.00	30.00
Scotch Pine, 2-1, 5 to 8 ins.	.....7.00	35.00
Austrian Pine, 2-1, 3 to 6 ins.	.....5.00	25.00
Cash or 25 per cent deposit with order. Balance C.O.D. 5 per cent discount on quantities of 25,000.		

## SAM DIBLE NURSERY

Shelbota, Pa.

## LINING-OUT STOCK

Heavy rooted cuttings. Per 100 Per 1000		
Ilex crenata convexa (bullata) 4 to 6 ins.	.....\$ 8.00	\$65.00
6 to 8 ins.	.....9.50	\$85.00
Taxus cuspidata, 6 to 8 ins.	.....9.00	80.00
Taxus hicksii, 6 to 8 ins.	.....9.00	80.00
Abelia grandiflora, 6 to 8 ins., from northern plants.	.....9.00	80.00
1-yr., 2½-in. rose pots	.....15.00	130.00
Deutzia gracilis	.....17.00	150.00
Abelia grandiflora	.....17.00	150.00
Taxus cuspidata	.....17.00	150.00
Taxus Moon's columnaris	.....17.00	150.00
Taxus hicksii	.....17.00	150.00
Ilex crenata convexa (bullata) 2-yr., 2½-in. rose pots	.....18.00	165.00
Pfitzer Juniper	.....15.00	125.00
Taxus cuspidata	.....22.00	200.00
Taxus brevifolia	.....22.00	200.00
All potted and bedded stock from 6 to 8-in. cuttings.		

Packing free for cash with order. 25 per cent deposit on all orders.  
LEHIGH VALLEY NURSERIES, INC.  
1745 Linden St. Bethlehem, Pa.

LINING-OUT MATERIALS  
BALLED AND BURLAPPED PFITZERS

Per 100		
BOXWOOD—Compact, well-branched 4 to 6 ins., out of 3-in. pots.	.....\$ 20.00	
EUNYMIUS PATENS		
8 to 12 ins., out of 2½-in. pots.	.....12.00	
4 to 6 ins., out of flats.	.....8.00	
PFITZER—HEAVY LINERS		
6 to 9 ins., T.	.....20.00	
9 to 12 ins., T.	.....25.00	
12 to 15 ins., TTT, field-grown.	.....70.00	
15 to 18 ins., TTT, field-grown.	.....90.00	
18 to 24 ins., TTT, field-grown.	.....115.00	
PFITZER—BALLED and BURLAPPED		
18 to 24 ins., B&B.	.....350.00	
2 to 2½ ft., B&B.	.....400.00	
TAXUS, CUSPIDATA and HICKSII		
6 to 8 ins., T.	.....20.00	
12 to 15 ins., 2-yr., out of pots.	.....35.00	
All our lining-out evergreens are dug bare-root, puddled and packed in moss. Packing and boxing at cost.		

NEBRASKA NURSERIES, INC.  
4815 "O" St. Lincoln 8, Neb.

## LINING-OUT STOCK—SPRING, 1953

	Per 100	Per 1000	Per 5000
1-0 Scotch Pine, 1 to 4 ins.	.....\$2.25	\$12.00	\$ 55.00
2-0 Scotch Pine, 2 to 5 ins. (Riga)....	2.50	15.00	70.00
2-0 Scotch Pine, 3 to 7 ins.	.....4.50	22.50	100.00
Prices quoted include all packing and shipping charges. Cash with order please.			
VAN'S PINES West Olive, Mich.			

Beautiful specimen Taxus, hicksii and low-growing types. Send for your list and prices.  
MATHEWS NURSERY & SEED CO.  
1216 W. Ridge Rd. Gary, Ind.

LINING-OUT STOCK  
POTTED EVERGREENS

	Each—Per 100	1000
Biota Aurea Nana.....	\$0.20	\$0.16
Dk. green Bakeri Arborvitae.....	.18	.14
Pyramid Arborvitae.....	.20	.16½
Woodward Globe Arborvitae.....	.20	.16½
Biota Globosa.....	.18	.15
Juniperus Burki.....	.25	.22
Juniperus Hetzi Glauca.....	.22½	.18½
1-yr. FIELD-GROWN		
Dk. green Bakeri Arborvitae.....	.20	.17½
Pyramid Arborvitae.....	.20	.17½
Woodward Globe Arborvitae.....	.20	.17½
B&B EVERGREENS		
Juniperus Virginiana Glauca, 3 to 3½ ft.	\$2.00	
Juniperus Hetzi Glauca.....	3.00	
Pyramid Arborvitae, 3 to 4 ft.	2.00	
Juniperus Pfitzeriana.....	3.00	
Juniperus Columnaris Glauca, 3 to 4 ft.	3.00	
Terms: Cash with order—Free packing. 300 plants at 1000 rate.		

VOGE NURSERY New Lebanon, O.

B & B EVERGREENS		
	Each	1000
100 Andorra Junipers, 15 to 18 ins.	.....\$1.35	
75 13 to 24 ins.	.....2.00	
51 2 to 2½ ft.	.....3.00	
100 Irish Junipers, 2 ft.	.....1.75	
400 Juniperus Hetzi Glauca, 15 to 18 ins.	2.00	
150 Juniperus Hetzi Glauca, 18 to 24 ins.	2.50	
200 Canadian Hemlocks, 18 to 24 ins.	2.00	
200 Canadian Hemlocks, 2 to 2½ ft.	2.75	
All carefully sheared, compact plants. F.O.B. Our nurseries. If you plan to visit us, kindly let us know in advance. If we will be here when you come. Phone evenings, 197-J or write, JAP. BEETLE AREAS ONLY.		

WHERRY'S NURSERIES

St. Marys, W. Va.

## JUNIPER GRAFTS

Canaerti, Glauca, Burki, Keteleeri, Chinese Mascula, Hetzi and Pfitzer—on Virginiana Understock. Price 40c each. Terms—one-fourth cash and balance before shipping date, plus boxing charges at cost. All cash with orders earns free boxing.

Grafts will be in short supply again this year. Be wise and order now. Remember when better grafts are made, Crume will make them.

T. C. Crume, Nursery & Landscaping Co.  
Highway No. 42, Florence, Ky. Phone: 233

## BEAUTIFUL RED CEDARS

	Per 1000
5 to 10 ins.	.....\$20.00
10 to 15 ins.	.....35.00
Per 100	
15 to 24 ins.	.....\$ 7.50
24 to 36 ins.	.....12.50
3 to 4 ft.	.....17.50

Write for price list on B&amp;B Evergreens.

Many varieties, also shrubs and shade trees.

## ROLLERS NURSERIES

Rogers, Ark.

## EVERGREEN PLANT MATERIAL

Liners and larger sizes of Azalea, Cornus, Cotoneaster, Ilex, Juniperus, Leucothoe, Picea, Pieris, Rhododendrons, Taxus, Tunga, Viburnum. Certified for shipment anywhere.

Wholesale Price List to the Trade.

H. W. WEBER EVERGREEN NURSERY

16 Summer St. Weston 93, Mass.

500 Colorado Spruce, 8 to 10 years.

Heavy trees, well-shaped.

2½ to 3 ft. Dig yourself.

Make us an offer.

## TRIPLE E NURSERY

2486 Packard Rd. Ann Arbor, Mich.

Telephone 2-0055

DWARF BOX, 4 to 6 ins. Bushy, transplanted field stock, shipped with light ball or bare root as desired, \$7.50 per 50. 500 or more, 10 per cent discount. Cash with order, crating free.

RICHARD P. RESSEL Mulino, Ore.

## LANDSCAPE-SIZE PINES

Scotch, red and white pines, 8 to 12 years old, grown at 2 to 3-ft. spacings. Pictures available.

## SUDBURY NURSERIES, INC.

South Sudbury, Mass.

Unrooted cuttings of the following: Pfitzer Juniper, \$10.00 per 1000; Bakeri Arborvitae, \$15.00 per 1000; Spiny Greek Juniper, \$15.00 per 1000; English Juniper, \$10.00 per 1000.

KRONE'S FLOWER SHOP

4221 Grand Ave. Fort Smith, Ark.

## JAPANESE BLACK PINE

We are headquarters for heavy liners of a beautiful compact strain of Pinus thunbergii.

## JOSEPH A. HREN NURSERIES

East Hampton, L. I., N. Y.

## EVERGREEN LINERS

9000 Andorra Junipers, 6 to 9 ins., T...\$10.00  
Cash with order appreciated. These are clean, healthy, well-rooted, field transplants.

WHERRY'S NURSERIES, St. Marys, W. Va.

## FRUIT and NUT TREES

AMERICAN FILBERTS (Hazelnuts)		
	Per 100	Per 1000
2 to 3 ft.	.....\$ 5.50	\$ 50.00
3 to 4 ft.	.....8.00	75.00
4 to 5 ft.	.....10.00	95.00
5 to 7 ft.	.....12.50	115.00
Waynesboro Nurseries, Waynesboro, Va.		

## GRASS

## MEYER (Z52) ZOYSIA:

We offer this famous grass in 2-in. plugs of sod at 10c each. Minimum order, 100, 1000 for \$90.00. Shipment about June 15, 1953. Nurseriesmen, get started in this wonder grass now. Write for folder.

HENRY C. GLISSMANN & SON  
4705 Cass St. Omaha, Neb.

## GROUND COVERS

VINCA MINOR, MYRTLE, PERIWINKLE  
Fresh-dug, individually made up, 15 to 20-cane clumps, \$50.00 per 1000, 30-cane clumps, \$90.00 per 1000.

Pachysandra, strong 1-yr., rooted, \$55.00 per 1000.

Hall's Honeysuckle, branched, \$45.00 per 1000.

Ivy, English and Baltic, 2-yr. or more, field-grown, bare-root, \$55.00 per 1000.

H. C. WATCH

R. D. No. 2 Cheshire, O.

PACHYSANDRA: 2-yr. field-grown, strong, several leads, \$7.00 per 100, \$65.00 per 1000.

1952 transplants, \$5.00 per 100, \$45.00 per 1000 F.O.B.

MOHLE MEADOWLAND NURSERY

Great Meadows, N. J.

PACHYSANDRA TERMINALIS, strong rooted cuttings, \$3.75 per 100, \$35.00 per 1000.

Beetle Zone only. Over 5000, \$32.50 per 1000.

DUNWOODIE NURSERIES, 6 Smart Ave.

Yonkers, N. Y. Yonkers 5-1473.

PACHYSANDRA TERMINALIS.

Strong, 1-yr., field-grown, \$65.00 per 1000.

HILLCREST GREENHOUSES, Franklin, Pa.

## HARDWOOD CUTTINGS

## HARDWOOD CUTTINGS

We have very large cutting blocks listing more than 50 varieties of shrubs and trees. On account of the time necessary to process them it is urgently requested that we have your order early.

	Per 1000
Aronia melanocarpa.....	\$ 4.00
Cornus amomum.....	4.00
Cornus lutea (yellow bark).....	6.00
Cornus paniculata.....	4.00
Cornus strobilata.....	5.00
Diervilla trifida.....	4.00
Elder, canadensis.....	5.00
Elder, Cutleaf.....	4.00
Elder, red-berried.....	6.00
Foraythia intermedia.....	3.00
Foraythia ovata.....	3.00
Foraythia pruinulosa.....	4.00
Foraythia spectabilis.....	3.00
Honeysuckle, bella albidia.....	3.00
Honeysuckle, bella rosea.....	3.00
Honeysuckle, korolkowi.....	5.00
Honeysuckle, morrowi.....	3.00
Honeysuckle, tat. rosea.....	5.00
Honeysuckle, zabeli.....	5.00
Hydrangea A.G.....	5.00
Hydrangea P.G.....	5.00
Juniper, Andorra.....	12.00
Juniper, Pfitzer.....	12.00
Philadelphus Amalthee.....	4.00
Philadelphus Bouquet Blanc.....	3.00
Philadelphus grandiflorus.....	3.00
Philadelphus lemoinei.....	5.00
Philadelphus Mt. Blanc.....	3.00
Physocarpus opulifolius.....	4.00
Physocarpus opulifolius.....	4.00
Physocarpus opulifolius.....	5.00
Poplar, Lombardy.....	3.00
Privet, Regal (true).....	5.00
Snowberry, white.....	4.00
Sorbaria sorbifolia.....	3.00
Spiraea billardi.....	3.00
Spiraea foebeli.....	4.00
Spiraea thunbergi.....	4.00
Spiraea trichocarpa.....	3.00
Spiraea vanhouttei.....	4.00
Taxus canadensis.....	12.00
Taxus cuspidata.....	12.00
Taxus globosa.....	12.00
Taxus pyramidalis.....	12.00
Taxus, Siberian.....	12.00
Viburnum dentatum.....	4.00
Willow, dwarf Arctic.....	4.00
Willow, French.....	5.00
Willow, Niobe.....	3.00
Willow, Wisconsin.....	4.00
Packed free. Cash with order, please.	
Delivery in good order guaranteed.	
SCOTCH GROVE NURSERY	
Scotch Grove, Ia.	

## HARDY PLANTS

Strong field-grown perennials for spring shipment. Place your order now.

	Per 100
Aquilegia—Mrs. Scott's.....	\$6.00
Carnation—Grenadin mixed.....	6.00
Delphinium—Giant Pacific, mixed colors.....	8.00
Shasta Daisy—Alaska.....	6.00
Shasta Daisy—Double.....	8.00
Viola—Cornuta, mixed colors.....	4.00
NORTH POLE NURSERY	
Cornucopia, Wis.	



## PEONIES

Strong, young roots, 3 to 5-eye and up	Per 100
Felix Crousse	\$45.00
Festiva Maxima	45.00
Gloire de Boskoop	45.00
Karl Rosenfeld	45.00
Lady Alexandra Duff	45.00
Mac Mahon	45.00
Mme. Calot	45.00
Mons. Jules Elie	45.00
Reine Hortense	45.00
Sarah Bernhardt	45.00
Dicentra Spectabilis, 3 to 5-eye	30.00
Dicentra Spectabilis, 5 to 8-eye and up	40.00
Dicentra Eximia, 3 to 5-eye	15.00
Dicentra Eximia, 5 to 8-eye and up	20.00
Punka Variegata	18.00
Helleborus Niger (Christmas rose)	65.00
Erasmus Bungei	\$1.00 each
Erasmus Sheldorfi, Hybrid	\$1.50 each
Erasmus Robustus	\$2.00 each

**HARDY NORTHERN-GROWN LILY BULBS**  
New, rare, scarce and unusual as well as standard varieties. Send for your free copy.

New wholesale list now ready.  
J. HENDRIKS, GROWER, Portage, Mich.

**HARDY PLANTS—WITH SALES APPEAL**

25 at 100 rate	Per 100
Ageratum Blue Mist (Eupatorium sp.)	\$ 6.00
Aster Frikarti, lovely blue	12.00
Aster New Royal Purple, none better	12.00
Aster Red Cloud, very dwarf	12.00
Asclepias tuberosa, Butterfly fl., rich orange	12.00
Dianthus, Clove Pinks, select colors	8.00
Grecian Foxglove, Digitalis lanata	12.00
Hardy Snapdragon (Linaria), yellow	18.00
orange	12.00
Iris sibirica, fine, tall blue	8.00
Lilium formosanum, large white	12.00
3-yr. bulbs	12.00
Penstemon Pygmy Rose, rose-lilac	12.00
Penstemon tubiflorus, tall purest white	10.00
Scutellaria Blue Symphony, lovely	12.00
3-ft. cuts	12.00
Shasta Daisy, Early Bouquet	8.00
rooted div.	12.00
Statice latifolia, excellent mist filler	12.00
Stokesia Blue Moon, no aster its equal	8.00
Tritoma pfitzeri, red-orange Torch Lily	6.00

**PRAIRIE SOUTHWEST FLORETUM**  
Fall River, Kan.

## PERENNIALS

Field-seeded, intensively cultivated, well-rooted and hardy. Two-year transplants. Prices per hundred.

**AQUILEGIA**—Crimsonstar, \$12.00; Longissima, \$12.00; **ASTILBE**—Rosea, \$12.00; **DELPHINIUM** Pacific Giant—Black Knight, \$14.00; Sir Galahad—White, \$14.00; **GAILLARDIA**—Oleander, \$12.00; **HELIOPSIS**—Spring Beauty, \$8.00; **LUPINE**—Russell, \$10.00; **PHLOX**—Subulata, Pink and Brilliant, \$10.00; **PLATYCODON**—Pink and Blue, \$12.00; **PYRETHRUM**—Robinson Crimson, \$12.00; James Kelway, \$12.00. Cash with order, please.

J. J. NIGARD NURSERY  
Herbster, Wis.

<b>EUONYMUS</b> Coloratus, 2-yr., field-grown.	\$25.00 per 100; \$225.00 per 1000
<b>EUONYMUS</b> Coloratus, 1-yr., 2½-in. pot.	\$12.50 per 100; \$100.00 per 1000
<b>EUONYMUS</b> Rad. Erecta, 2-yr., field-grown.	\$25.00 per 100; \$225.00 per 1000
<b>EUONYMUS</b> Rad. Erecta, 1-yr., 2½-in. pot.	\$12.50 per 100; \$100.00 per 1000
<b>LYTHRUM</b> Morden Pink, 1-yr., field-grown.	\$15.00 per 100; \$150.00 per 1000
<b>LYTHRUM</b> Profundum, 1-yr., field-grown.	\$15.00 per 100; \$150.00 per 1000

All above: 25 of a kind at 1000 rates; 250 of a kind at 1000 rates.

CUNNINGHAM GARDENS, INC.  
Waldron, Ind.

## HEAVY FIELD PLANTS

Allium (Chives)	Per 10 Per 100
Artemisia Silvermound, dwarf	\$2.50 25.00
Hemerocallis Hyperion	2.00 15.00
Iberis Sempervirens, 2-yr.	2.00 15.00
Siberian Iris Caesar's Brother	2.00 15.00
Siberian Iris Blue Charm	2.00 15.00
Siberian Iris Snow Queen	2.00 15.00
Phlox Mary Louise, 2-yr.	2.00 15.00
Plumbago Larpentiana	2.00 15.00
Thermopsis Caroliniana	2.50 20.00
Tritoma Primrose Beauty	2.00 15.00

**BEARDSLEE NURSERY** Perry, O.

**GYSOPHILA BRISTOL FAIRY**

Grafted pot plants. Order now for Spring delivery; shipping will start about April 1.

Per doz. Per 100 Per 1000  
2½-in. pots \$1.50 \$22.00 \$200.00  
25 at 100 rate; 250 at 1000 rate.

**BLUE ACRE GARDENS**

David L. Guenther, Prop.

P. O. Box 347 Piqua, O.

**TEUCRIUM CHAMAEDRYS**

Well-rooted cuttings.

\$5.00 per 100, \$45.00 per 1000.

**BEARDSLEE NURSERY** Perry, O.

**YUCCA GLAUCA**—Hardy anywhere. Good, strong 2-yr.-old plants, \$5.00 per 100.

**GILBERTSON NURSERY**

Kindred, N. D.

Panicles, perennials and rock plants in wide variety. Send for catalog.

**PITZONKA'S PANSY FARM**

Bristol, Pa.

## EUONYMUS RADICANS VEGETUS

10,000 Heavy-rooted Cuttings.

7c each per 100, 6c each per 1000.

## RIDGEVIEW NURSERY

E. Middle Ridge Madison, O.

Phone: 2633

## DELPHINIUM PACIFIC HYBRIDS

Separate colors and mixed, 2-in. pots, 9c.

New pink Astolat, 2-in. pots, 13½c.

## HARDY CHRYSANTHEMUMS

We have 50 of the best varieties. 300 rooted cuttings, 20 each of 15 varieties, our selection, \$16.50. 300 plants from 2-in. pots, 20 each of 15 varieties, our selection, \$32.00.

**STRATFORD GARDENS** Delaware, O.

## HARDY FERNS

Ostrich, Lady, Clayton and Maidenhair, \$7.50 per 100; \$75.00 per 1000.

**STRAND NURSERY CO.**

Taylor's Falls, Minn.

## PERENNIALS

New and standard kinds.

New wholesale list now ready.

## CARROLL GARDENS

Box 15 Westminster, Md.

## PERENNIALS Per 100 Per 1000

Aster Frikarti, rooted cuttings, \$10.00 \$90.00

Lythrum Morden's Pink, 1-yr., field-grown, No. 2 grade, 10.00 90.00

**PLANE VIEW NURSERY, NEWPORT, R. I.**

America's Best Source

of Hardy Plants is

**THE WAYSIDE GARDENS**

Mentor, Ohio

Write for Trade List.

## HIBISCUS

VON KLEINSCHMIDT Hibiscus, first time offered in Texas. Sturdy, fast-growing, double lemon-yellow hibiscus, profuse blooming, with lemon fragrance, \$35.00 per 100.

Out of 2½-in. pots. Per 100

Crown of Bohemia, double yellow, \$26.00

Hills of Gold, double yellow, 26.00

Lambert, double red, 21.00

Pride of Hanksville, double rose, 21.00

Coral Beauty, double coral, 21.00

Kona, double light pink, 21.00

Jigoro, double orange, 21.00

Sub Violaceo, double rose-pink, 21.00

Peach Blow, double pink, 21.00

Agnes Gault, single pink, 21.00

Indian Chief, single red, 19.00

Golden Dawn, single yellow, 19.00

Alba White, single white, 19.00

Brilliantissima, single red, 16.00

Grandiflora, single pink, 16.00

Psyche, single red, 16.00

California Gold, single yellow, 19.00

Florida Gem, single pink, 19.00

Red Agnes Gault, single red, 19.00

American Beauty, single pink, 19.00

Lona, single yellow, 19.00

Delcata, single orange, 19.00

Tahiti, single yellow, 19.00

Pride of Bellaire, single yellow, 19.00

Plumbago, 12.50

Grand Duke Jasmine, 12.50

Confederate Jasmine, 12.50

**BRADSHAW NURSERY**

League City, Tex.

## IVIES

**IVIES**

English—Hedera helix.

Baltic—Hedera helix baltica.

2½-in., \$12.00 per 100.

English Tree Ivy, Hedera helix arborescens.

2-in., \$20.00 per 100.

No charge for packing

when cash accompanies order.

**THE HOLLANDIA GARDENS**

South Vienna, Ohio

**BALTIC IVY.** Rooted cuttings, 5c; 2-in. pots, 10c; 2-yr., 2½-in. pots, 15c.

**EUONYMUS RADICANS:** Erecta, Patens

Newport, Carrierei and Coloratus. Rooted

cuttings, 6c; 2-in. pots, 10c; 2-yr., field, XX,

20c.

**STRATFORD GARDENS** Delaware, O.

Hardy **ENGLISH IVY** from stock surviving in our nursery at below zero temperatures.

Rooted cuttings, \$30.00 per 1000. PREPAID.

**BABCOCK GARDENS**

R. 3 Jamestown, N. Y.

## LINING-OUT STOCK

**LINING-OUT STOCK**

Per 100

Azalea Mucronulatum, 1-yr., T.

3 to 6 ins., flats, \$20.00

Field-Grown Evergreen Liners

Juniperus Glauca Hetzi, 2-yr., TT,

10 to 15 ins., 25.00

Taxus Cuspidata, spreading, 2-yr.,

TT, 8 to 10 ins., 35.00

Not less than 25 of a variety. Cash with order. Express collect.

**COOPER RIDGE NURSERIES**

R. D. 4 Hamburg, N. Y.

## 1952-1953 Lining-out Stock

Per 100 Per 1000

14,500 Althaea, 1-yr. adigs. \$4.50 \$ 35.00

775 Althaea W. R. Smith,

2½ to 3 ft., heavy,

each 20c

540 Althaea Woodbridge,

2½ to 3 ft., heavy,

each 20c

3000 Azalea Mollis, 2-yr.,

TT, FR 25.00 200.00

150 Cotoneaster Divaricata,

2-yr., 9 to 12 ins.,

T, FR 30.00 250.00

7900 Cydonia Japonica,

1-yr. adigs. 4.50 35.00

1850 Cydonia Japonica,

2-yr. adigs. 8.50 75.00

400 Euonymus Radicans

Variegatus 35.00 300.00

200 Hydrangea P.G., 1-yr.,

9 to 12 ins., 15.00 140.00

825 Liquidambar Styraciflua,

1-yr. adigs. 7.00 60.00

1000 Philadelphia Virginalis,

2-yr., 15 to 18 ins.,

T, FR 30.00 250.00

3000 Picea Excelsa, 3-yr.,

T, FR 30.00 250.00

15,000 Rosa Multiflora,

grafting size 5.00 40.00

50,000 Rosa Multiflora,

2 to 3 mm. 2.50 18.00

490 Rosa Rugosa (mixed),

1-yr. adigs. 5.50 45.00

5000 Thuja Occidentalis, 2-yr.,

grafting size 7.00 60.00

1400 Thuja Occidentalis Nigra,

3-yr., TT, FR 70.00 600.00

2000 Thuja Occidentalis

Pyramidalis, 2-yr.,

G, FR 70.00 600.00

3000 Thuja Orientalis Aurea

Nana (Blota), 2-yr.,

G, FR 60.00 500.00

T—Once Transplanted: TT—Twice Trans-

planted: FR—Field Row.

**BOULEVARD NURSERIES**

Newport, R. I.

## ROOTED CUTTINGS

Per 10 Per 100 Per 1000

Arborvitae Elegantissima,

6 to 10 ins., \$0.10 \$0.09 \$0.08

Arborvitae, Globe, 10 .09 .08

Arborvitae, Green Niagara,

4 to 6 ins., 10 .09 .08

Arborvitae Pyramidalis,

6 to 10 ins., 10 .09 .08

Arborvitae, Ware, 4 to 6 ins., 10 .09 .08

Juniper, Andorra, 4 to 8 ins., 14 .13 .12

Juniper, Pfitzer, 4 to 8 ins., 14 .13 .12

Juniper, Savin, 4 to 8 ins., 14 .13 .12

Taxus Capitata (Leaders

only), 6 to 10 ins., 20 .18 .16

Taxus Cuspidata, 6 to 10 ins., 10 .09 .08

Taxus Hicksi, 6 to 10 ins., 10 .09 .08

Taxus Intermedia,

6 to 10 ins., 10 .09 .08

Grafted Spruce, 2½-in. pots, Koster Blue,

\$1.25 each.

**PLANT BANDS** Per 10 100 1000

Arborvitae, Globe, \$0.20 \$0.18 \$0.16

Arborvitae Pyramidalis,

10 ins., 20 .18 .16

Juniper, Pfitzer, 4 to 8 ins., 25 .23 .22

Taxus Capitata, 6 to 10 ins., 28 .26 .24



## LINING-OUT STOCK—Continued

LINE-OUTS—OUTSIDE-GROWN		
Winter-Hardened—Fully Acclimated		
at 100 rate	Per 100	Per 1000
Chittamwood, rare tree, 1-yr. adigs. ....	\$10.00	
Hardy Chinaberry, 6 to 12 ins. ....	9.00	
Unusual Red Firethorn, 5 to 11 ins. ....	20.00	
Mimosa Silk Tree, 6 to 12 ins. ....	8.00	
Sycamore Maple, rare, 4 to 10 ins. ....	9.00	
May Day Tree, attractive, 6 to 12 ins. ....	10.00	
Flowering Oriental Cherry, 10 to 15 ins. ....	20.00	
Pendula Bald Cypress, 1 to 2 ft. ....	15.00	
White Oak, dense foliage, 6 to 12 ins. ....	6.00	
American Filberts, bear early.		
5 to 12 ins. ....	15.00	
Big Shellbark Hickory, 6 to 10 ins. ....	12.00	
Giant Shagbark Hickory, 6 to 10 ins. ....	12.00	
Scaly-bark Hickory, 6 to 10 ins. ....	12.00	
Biota Orientalis Compacta, 6 to 10 ins. ....	10.00	
Biota Orientalis Compacta, 1-yr. adigs. ....	5.00	
White Pine, 1-yr. adigs. ....	6.00	
Austria Pine, 1-yr. adigs. ....	6.00	
Scotch Pine, 1-yr. adigs. ....	6.00	
Yuccas, 3 hardy evergreen types, asstd. ....	12.00	
Siberian Pea Shrub, 6 to 12 ins. ....	8.00	
Monk's Pepper Tree, 8 to 12 ins. ....	10.00	
Boston Ivy, 4 to 10 ins. ....	8.00	
Kudzu Vine, root crowns. ....	8.00	
No packing charges. Permit with order.		
PRairie SOUTHWEST FLORETUM, Fall River, Kan.		

Per 100 Per 1000		
Acer Palmatum, 1-yr. S. ....	\$6.00	\$50.00
Biota Orientalis, 2-yr. S. ....	3.50	30.00
Chamaecyparis Obtusa, 2-yr. S. ....	3.00	25.00
Cryptomeria Japonica, 2-yr. T. ....	6.00	50.00
Ilex Crenata, 2-yr. S. ....	10.00	90.00
Picea Alba, 2-yr. S. ....	3.50	30.00
Picea Canadensis, 2-yr. S. ....	3.50	30.00
Picea Engelmanni, 2-yr. S. ....	3.50	30.00
Picea Excelsa, 3-yr. S. ....	3.50	30.00
Picea Pungens Glauca, 2-yr. ....	3.50	30.00
Pinus Austriaca, 2-yr. S. ....	7.00	60.00
Pinus densiflora, 2-yr. S. ....	6.00	50.00
Pinus Mugo, 2-yr. S. ....	5.50	50.00
Pinus Strobus, 2-yr. S. ....	3.50	30.00
Pinus Sylvestris, 2-yr. S. ....	3.00	25.00
Syringa Vulgaris, 1-yr. S. ....	3.00	25.00
Tsuga Canadensis, 1-yr. T. ....	9.00	80.00
4 to 6 ins. ....	9.00	80.00
From Holland Import.		
Rhod. Hybr., named var., 1-yr., grafted ....	\$75.00	\$750.00
2-yr., grafted ....	150.00	
Azalea Mollis, named var., 6 to 8 yrs., field-grown. ....	75.00	
Viburnum Carlesii, 1-yr., field-grown, grafted ....	75.00	
Full list on request.		
VERKADE'S NURSERIES, WAYNE, N. J.		

LINER LIST		
February 12, 1953		
F.O.B. Scottsville, Tex.		
10,000 Irish Juniper, 2½-in. pots. ....	Each	
1,000 Baker Hybrid Arborvitae, 2½-in. pots. ....	15c	
1,000 Bluecone Arborvitae, 2½-in. pots. ....	17c	
2,000 Golden Bonita Arborvitae, 2½-in. pots. ....	17c	
3,000 Golden Bonita Arborvitae, 2½-in. pots. ....	17c	
2,000 Golden Bonita Arborvitae, 2½-in. pots. ....	17c	
1,000 Boxwood Sempervirens, 2½-in. pots. ....	15c	
2,000 Hume Holly No. 2, 2½-in. pots. ....	15c	
1,000 Vasecolum Juniper, 2½-in. pots. ....	15c	
500 Loropetalum, 2½-in. pots. ....	15c	
5,000 Pineapple Guava, 2½-in. pots. ....	15c	
2,000 Sweet Gum Liners, 2½-in. pots. ....	15c	
Out-grown liners—Hardy climate built right in. These plants are ready now and can be shipped soon as we hear from you. We recommend express delivery. These prices include packing in paper pots on 100 per carton. Your order will be given prompt attention.		
VERHALEN NURSERY CO. Scottsville, Tex.		

QUALITY LINERS		
Per 100		
Abelia Grandiflora, 6 to 12 ins., tr. ....	\$25.00	
Canadian Hemlock, 4 to 6 ins., tr. ....	12.50	
Canadian Hemlock, 5 to 10 ins., tr. ....	20.00	
Mugho Pine, 4 to 8 ins., tr. (sheared) ....	20.00	
Franklinia, 8 to 12 ins., adigs. ....	25.00	
Taxus Hatfieldi, 6 to 8 ins., tr. ....	27.50	
French Hybrid Lilacs, 6 to 12 ins., grafts ....	27.50	
Viburnum Carlesii, 4 to 8 ins., tr. ....	35.00	
Red-flg. Dogwood, 6 to 10 ins., grafts ....	75.00	
Red Japanese Maple, 6 to 12 ins., grafts ....	55.00	
Send for new Spring List.		
POSSUM HOLLOW NURSERIES 6327 Magnolia St. Philadelphia 44, Pa.		

LINING-OUT STOCK		
Hydrangea P.G., No. 1 layers. ....	\$8.00 per 100	
	6.00 per 1000	
Large-flowering type		
CHAMPION NURSERIES Perry, O.		

EVERGREENS		
See our Classified Ad in this issue under		
T. G. OWEN & SON, INC. Columbus, Miss.		

LINERS		
Complete list of lining-out stock of ornamental aristocrats now ready. Copy gladly sent on request. Established 1921 and still growing. JOHN VERMEULEN & SON, INC. Neshaun Station, N. J.		

Evergreen liners in wood plant bands. For field planting.

PFITZER JUNIPER.		
6 to 8 ins. ....	\$0.14½	
8 to 10 ins. ....	.20	
10 to 12 ins. ....	.26	
GREEK JUNIPER (Excelsa stricta).		
8 to 10 ins. 2-yr. ....	.20	
ANDORRA JUNIPER (Horizontalis plumosa).		
8 to 10 ins. ....	.20	
10 to 12 ins. ....	.26	
ASHFORD JUNIPER		
10 to 15 ins. 2-yr. ....	.20	
EUONYMUS COLORATUS.		
6 to 10 ins. RC. 1-yr. ....	.05	
BUONYMUS PATENS.		
Small leaf. ....	.14½	
Prices are for 300 or more, total order. Less than 300, 2c more per plant.		
Book your order for spring.		
McININCH GREENHOUSES St. Joseph, Mo.		

EVERGREENS—LINING-OUT STOCK		
Each		
Abies Concolor, 3-yr. S. X. ....	25c	
Azalea Amoena, 1-yr. beds. ....	.25c	
Biota Orientalis Elegantiissima, 2-yr. S. ....	.5c	
Rhus Arborecens, 1-yr. beds. ....	.15c	
Rhus Sempervirens, 1-yr. beds. ....	.15c	
Ilex Bullata, 1-yr. beds. ....	.17½c	
Ilex Crenata, 1-yr. beds. ....	.17½c	
Retinospora Lutescens, 1-yr. beds. ....	.15c	
Retinospora Plumosa, 1-yr. beds. ....	.15c	
Retinospora Plumosa Aurea, 1-yr. beds. ....	.15c	
Taxus Baccata Aurea, 2-yr. beds. ....	.25c	
Taxus Browni, 2-yr. beds. ....	.22½c	
Taxus Hatfieldi, 2-yr. beds. ....	.22½c	
Taxus Hicksi, 2-yr. beds. ....	.22½c	
Taxus Vermeulenii, 2-yr. beds. ....	.22½c	
Thuja Elegantiissima, 1-yr. beds. ....	.20c	
Thuja Globosa, 1-yr. beds. ....	.15c	
Thuja Pyramidalis, 1-yr. beds. ....	.15c	
Cash with order, packing free. Kindly order in lots of 50 or more.		
DEL-MAR-VA NURSERIES Lincoln, Del.		

LINING-OUT STOCK		
Per 10 Per 100		
Castanea Mollissima, (Chinese Chestnut), 1-yr., field. ....	\$3.00	\$25.00
Philadelphus Aurea, 2-in. pots. ....	2.50	20.00
Pyracantha Coccinea Lalandi, 2-in. pots. ....	3.00	25.00
Teucrium Chamaedrys, rooted cuttings. ....	5.00	
Vicary Privet, 2-in. pots. ....	2.00	18.00
BEARDSLEE NURSERY Perry, O.		

PEONIES		
PEONIES. Strong 3 to 5-eye, dormant roots. From young blocks, correctly labeled. 5 of a variety at the 10 rate; 25 of a variety at the 100 rate.		
50 Albiflora, white, single. ....	10	100
50 Baroness Schroeder, white. ....	\$4.50	\$40.00
125 Claire Dubois, light pink. ....	4.00	35.00
250 Felix Crousse, red, early. ....	4.50	40.00
50 Frankie Curtis, white, large. ....	8.00	75.00
50 Grandiflora, pink, late. ....	4.50	40.00
100 Lady A. Duff, bluish-pink. ....	4.50	40.00
30 Mad. Gauthier, pink, single. ....	5.50	50.00
50 Martha Bulloch, pink, large. ....	7.50	70.00
150 Mikado, crimson, single. ....	5.00	45.00
50 Mme. Emile Lemoine, white. ....	4.00	35.00
50 Mme. Jules Desert, white. ....	5.00	45.00
150 Modele de Perfection, pink. ....	4.00	35.00
150 Modeste Guerlin, pink, early. ....	4.50	40.00
50 Therese, satiny pink. ....	6.00	55.00
150 Walter Faxon, vivid pink. ....	5.00	45.00
CUNNINGHAM GARDENS, INC. Waldron, Ind.		

PHLOX		
Field-grown thrifty plants, now in storage ready for immediate shipment. All plants are well-rooted and are true-to-name.		
GROUP A Varieties		
No. 1. ....	\$1.40 per 10; \$13.00 per 100	
COLONIAL, light blue, good grower.		
DR. CHARLES MAYO, white with crimson eye.		
ECLAIREUR, rosy-carmine with light halo.		
MORGANROOD, bright rose with deeper eye.		
MRS. JENKINS, pure white, large, late.		
PRIME MINISTER, clear white with violet eye.		
GROUP B Varieties		
No. 1. ....	\$1.75 per 10 \$15.00 per 100	
BARON VON HECKEREN, delicate salmon-pink.		
BEACON, cherry-red with wine-red eye.		
BORDER QUEEN, watermelon-pink.		
R. P. STRUTHERS, rosy-carmine, with claret eye.		
SPECIAL FRENCH, bluish-pink with salmon eye.		
(Above prices are for our heavy No. 1 grade. We can also supply a lighter grade. No. 2, for \$3.00 per 100 less than above prices.) Good Phlox plants are not plentiful this spring; send us your order while our supply is complete.		
We also grow a general line of nursery stock and shall be pleased to quote on your requirements.		
SHERMAN NURSERY CO. 69 Years—500 Acres Charles City, Ia.		

## RHODODENDRONS

RHODODENDRON: Ponticum, Catawbiense hybrida. Good foliage for understocks, over-the-counter sales or to grow on. Shipped with ball.		
8 to 12 ins. tall, XX, T. ....	\$12.50 per 50	
6 to 8 ins. tall, X. ....	10.00 per 50	
4 to 6 ins. tall, X. ....	7.50 per 50	
500 or more of a size, 10 per cent discount.		
Crating free. Cash with order.		
RICHARD P. RESSEL Mulino, Ore.		

## ROOTED CUTTINGS

ROOTED CUTTINGS Well-rooted.		
	Per 100	Per 1000
Arborvitae, Dark Green American, 6 to 10 ins. ....	\$ 9.00	\$80.00
Arborvitae, Globe, 4 to 8 ins. ....	9.00	80.00
Arborvitae, Pyramidal, 6 to 10 ins. ....	9.00	80.00
Arborvitae, Siberian, 6 to 10 ins. ....	9.00	80.00
Arborvitae, Spiral, 6 to 10 ins. ....	9.00	80.00
Juniper, Andorra, 6 to 10 ins. ....	10.00	90.00
Juniper, Hetz (Blue), 6 to 10 ins. ....	9.00	80.00
Juniper, Pfitzer, 6 to 10 ins. ....	9.00	80.00
Juniper, Sabina, 6 to 10 ins. ....	9.00	80.00
Juniper, Von Ebron, 6 to 10 ins. ....	9.00	80.00
Taxus cuspidata, 6 to 10 ins. ....	9.00	80.00
Taxus Hicksi, 6 to 10 ins. ....	10.00	90.00
Taxus Hicksi, 4 to 6 ins. ....	9.00	80.00
Cash with order. Packing free. Shipping May 1 to June 15. Please specify date.		
DE WINTER'S NURSERY Grandville, Mich.		

ROOTED CUTTINGS FROM GREENHOUSE		
Per 1000		
Biota Bakeri, 2 to 4 ins. ....	\$70.00	
Biota Canadensis Aurea, 2 to 4 ins. ....	70.00	
Biota Excelsa, 2 to 4 ins. ....	70.00	
Biota Excelsa, 4 to 6 ins. ....	80.00	
Euonymus Japonicus, 2 to 4 ins. ....	50.00	
Euonymus Japonicus, 4 to 6 ins. ....	60.00	
Ilex Rotundifolia, 2 to 4 ins. ....	60.00	
SPRING DELIVERY		
Biota Fruitlandi (Berckmans Green), 2 to 4 ins. ....	70.00	
Biota Fruitlandi (Berckmans Green), 4 to 6 ins. ....	80.00	
Ilex Crenata Rotundifolia, 2 to 4 ins. ....	60.00	
Juniper, Pfitzer, 2 to 4 ins. ....	60.00	
Juniper, Pfitzer, 4 to 6 ins. ....	70.00	
Cash with order, 2% deposit on Spring Delivery.		
BROSEMER NURSERY Rt. 1, Box 155 Huntsville, Ala.		

ROOTED CUTTINGS, Transplanted in Flats, 1-yr.		
Per 100 Per 1000		
Azalea Hinodegiri, 4 to 6 ins. ....	\$15.00	\$125.00
Azalea Hini-Crimson, 4 to 6 ins. ....	15.00	125.00
Azalea Macdonaldii (from seed), 4 to 6 ins. ....	15.00	125.00
Ilex Opaca, 4 to 5 ins. ....	20.00	
Pieris Japonica, 4 to 6 ins. ....	15.00	125.00
VAN DINE NURSERY Berdan Ave. Preakness, N. J.		

## ROSEBUSHES

We offer strong, finely rooted (for easy potting), well-grown and prepared for 2-year field-grown roses. Stored in our own modern cold-storage plants, for immediate or later shipment, as desired.		
Priced:		
2-yr., No. 1. ....	\$50.00 per 100, \$480.00 per 1000	
2-yr., No. 1½. ....	40.00 per 100, 350.00 per 1000	
Our No. 1½ grade fine for potting.		
RED		
Ami Quinard	F. K. Druschki	
Grenoble	K. A. Viktorin	
McGredy Scarlet	TWO-TONE	
Red Radiance	Condessa de Santiago	
Rouge Mallerin	Pra. Hoover	
	Talisman	
Betty Uprichard	CLIMBING ROSES	
Editor McFarland	Blaze	
Pink Radiance	Cl. American Beauty	
Picture	Cl. Talisman	
	Paul's Scarlet	
Golden Charm	Gold Rush	
Golden Dawn	New Dawn	
Yellow Condessa	THATCHER RD	
PATENTED ROSES, 2-YR., No. 1		
Per 10 Per 100		
Buccaneer	\$14.00	\$125.00
Bush Festival, red thornless. ....	10.00	80.00
Cl. Festival, red thornless. ....	10.00	80.00
Cl. Floradora	12.00	100.00
Cl. Peace	14.00	125.00
Crimson Glory	10.00	90.00
Helen Traubel	14.00	125.00
Mirandy	11.00	95.00
Misson Bella	12.00	100.00
Nocturne	10.00	90.00
Peace	14.00	125.00
Pillar Stratford (everblooming climber)	10.00	90.00
Sutter's Gold	12.00	100.00
THE KRIDER NURSERIES, INC. Middlebury, Ind.		

## ROSEBUSHES

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## ROSES

Delaware and California grown. Vigorous, well-rooted, plump plants, graded here at Selbyville, in accordance with A. A. N. standards. These roses will please both you and your customers. Available for shipment as desired from our modern cold storages, equipped with ultraviolet ray lamps. (Price per plant, No. 1 grade)

## PATENTED ROSES

	10-19	20-99	100-249
Variety and Patent No. plants	plants	plants	plants
Climbing Peace, No. 932	\$1.40	\$1.25	\$1.20
Fred Howard, No. 1006	1.40	1.25	1.20
Mirandy, No. 632	1.10	1.00	.95
Peace, No. 591	1.40	1.25	1.20
Sunset Glory, No. 738	1.00	.88	.80
Vogue, No. 926	1.25	1.15	1.05

NOTE: The varieties of Patented Roses listed above are also available in No. 1 1/2 grade, at a reduction of 20 per cent in price.

STANDARD ROSES	Per 10	Per 100
2-yr., No. 1 grade	\$6.50	\$60.00
2-yr., medium grade	5.50	50.00

## HYBRID TEA VARIETIES:

Condesa de Santiago, two-tone	
Editor McFarland, pink	
Etoile de Hollande, red	
Golden Charm, yellow	
Golden Dawn, yellow	
Joanna Hill, yellow	
K. A. Viktoria, white	
Mme. Jules Bouche, white	
Poinsettia, red	
President Hoover, two-tone	
Red Radiance, red	
Talisman, two-tone	
Yellow Condesa, yellow	
CLIMBING HYBRID TEAS:	
Cl. Condesa, two-tone	
Cl. Etoile de Hollande, red	
Cl. K. A. Viktoria, white	
Cl. Mrs. E. P. Thom, yellow	
Cl. P. S. du Pont, yellow	
Cl. Pink Radiance, pink	
Cl. President Hoover, two-tone	
Cl. Red Radiance, red	
Cl. Talisman, two-tone	

Please use your printed stationery when ordering at wholesale rates.

## BUNTINGS' NURSERIES, INC.

Box 3	Selbyville, Del.
200 MA PERKINS ROSES—No. 1	
20 to 99	\$1.12 1/2
Over 100	1.05
Cash with order	
STANKE'S NURSERY	
E. 2929 29th Ave.	Spokane, Wash.

## ROSES

Looking for a promotion item? We've got it! Rosa Excelsa—Rosa Excelsa Pillar. Call us today; they are moving fast.

## LAKE'S SHENANDOAH NURSERIES

Dept. 8	Shenandoah, Ia.
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2-yr. Multiflora Roses, Just right for quick fences.

## MATHEWS NURSERY

1216 W. Ridge Rd.	Gary, Ind.
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## SEEDLINGS

	Per 100	Per 1000
American Arborvitae (Occidentalis), 2-yr. S, 4 to 8 ins. ....	\$ 5.25	\$26.75
American Red Pine, 3-yr. S, 6 to 12 ins. ....	9.75	48.75
Mugho Pine (Certified Tyrolean seed), True dwarf, 2-yr. S, 2 to 5 ins. ....	5.25	26.75
Rocky Mt. Juniper (Scopulorum), 3-yr. S, 6 to 12 ins. ....	12.50	125.00
Colorado Blue Spruce (Seed hand-picked from blue trees); 3-yr. S, 4 to 8 ins. ....	9.75	49.75
TERMS—Remittance with order. Packing free. Parcel post prepaid. Send for price list.		
NEUNER'S EVERGREEN NURSERY		
Eicher Road, R. D. 3,	Emsworth 2, Pa.	

## EVERGREEN SEEDLINGS

	Per 100	Per 1000
2-yr. Seedlings	100	1000
Colo. Blue Spruce, 2 to 4 ins.	\$3.00	\$20.00
Eng. Blue Spruce, 2 to 4 ins.	3.00	20.00
Norway Spruce, 3 to 6 ins.	3.00	20.00
Scotch Pine, 4 to 8 ins.	4.00	25.00
Austrian Pine, 3 to 5 ins.	4.00	25.00
Cash with order. Packing free.		
ARTHUR CASH NURSERY		
Angola, N. Y.		

## CHRISTMAS TREE SEEDLINGS

1000	
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## SCOTCH PINE

Per 1000	Per 1000
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2 to 8 ins.	\$1.00	\$8.00	\$7.50
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Red run, well-rooted.

## ROLLING ACRES NURSERY

R. R. 4	Holland, Mich.
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## SCOTCH SEEDLINGS—3-yr. old, 6 to 10 ins.

\$20.00 per 1000; 10 to 16 ins., \$22.00 per 1000. All stock state and federal inspected and approved. Special discounts on large quantities.

## COOKS NURSERY

Box 238	Rimersburg, Pa.
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## NANDINA DOMESTICA

Strong seedlings, ready for pots or beds, \$30.00 per 1000, 500 minimum. Cash, please.

## SKYLINE GARDENS

Box 3316	Birmingham, Ala.
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SEEDLINGS—Bed-grown in soil prepared to produce fibrous root systems. We bundle and pack them to reach you in fine condition.

## BIOTA ORIENTALIS

Per 1000	
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2-yr., 10 to 14 ins.	\$30.00
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1-yr., 3 to 5 ins.	15.00
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## JUNIPERUS VIRGINIANA

1-yr., 3 to 5 ins.	25.00
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## SOUTHERN NURSERY

Rt. 7, Box 254A	Okla. City, Okla.
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## CARAGANA ARBORESCENS

Per 100	Per 1000
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14,000 3/16-in. cal., 12 to 15 ins.	\$2.50	\$22.00
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9000 5/32-in. cal., 9 to 12 ins.	1.75	15.00
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## KROH BROS. NURSERIES

Loveland, Colo.	
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## 1-yr. AZALEA MOLLIS seedlings, \$10.00

per flat, average 300 per flat.

## JOHN WIGMORE

Norman Ave. at Cambridge Station	Riverside, N. J.
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## SEEDS

## LAWN SEED

at wholesale prices for landscape gardeners, cemeteries, contractors, etc.

50 lbs. 100 lbs.	
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Landscape Gardeners' Mixture	\$32.00	\$62.00
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Cemetery Mixture	37.00	71.00
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Contractors' Mixture	36.00	30.00
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F.O.B. New York, 300 lbs., freight paid.

Send for complete list. Also prices for seed packed in colored bags suitable for resale.

## HERBST BROTHERS

678 Broadway,	New York 12, N. Y.
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## ASPARAGUS SEED

Per lb.	
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Mary Washington	\$1.50
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ROBERTS SPECIAL STRAIN	7.00
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California No. 500	2.65
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Paradise	1.70
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F.O.B. New York.

Commercial growers ask for quantity prices.

## HERBST BROTHERS

678 Broadway,	New York 12, N. Y.
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## "Pure Ky." BLUE GRASS LAWN SEED

AT LOWER PRICE: Subject supply on hand. Extra-fine quality. Grown in the heart of blue grass country. 10 lbs., \$7.00; 25 lbs., \$16.00; 50 lbs., \$30.00; 100 lbs., \$58.00. All F.O.B. here.

## WALNUT LAWN FARM, Est. 1841

Rt. 2F	Lexington, Ky.
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## SHRUBS AND TREES

## HIBISCUS—Mallova. Henderson's Giant

Hybrids. Hardy anywhere. 6 to 12-in. blooms.

Mixed colors, heavy-blooming stock. Doz., \$4.00; 100, \$20.00; 1000, \$150.00.

Liners of the above: 100, \$3.00; 1000, \$40.00.

NEW Henderson's Giant and Red Glory Hybrids. Tall-growing. Beautiful shades of red and pink. No whites. 100, \$10.00.

## ALTIAS—Three outstanding new doubles

of excellent beauty. Hardy anywhere. All guaranteed blooming stock. These are 10 to 12-in. liners. If interested in larger sizes and other plants send for list.

## EFFIE RIEGEL

double snow-white	\$1.50	\$10.00
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## PINK DELIGHT

double shell-pink	1.50	10.00
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## KREIDER BLUE

a fine double blue	2.50	15.00
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## WATER OAKS—Quercus nigra. An old

favorite, well-branched, good roots. 9 to 12 ft., \$30.00 per doz. Send for list for other sizes.

## TEXAS UMBRELLA CHINAS—Melia

Azedarach Umbracliformis. Bright clean stock. 15 to 18 ins., 100, \$10.00; 30 to 40 ins., 100, \$15.00.

## MIMOSA OR SILK TREE—Albizia Julibrissin. Ideal stock. 6 to 10 ins., 100, \$2.50;

1000, \$20.00. 12 to 18 ins., 100, \$3.00; 1000, \$25.00. 24 to 30 ins., 100, \$4.00; 1000, \$35.00. 50 at 100 rate, 500 at 1000 rate.

## HEAVY TRANSPLANTS

6 to 8 ft., branched	\$12.00 doz.
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9 to 12 ft., branched	24.00 doz.
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12 to 14 ft., branched	32.00 doz.
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## RIEDEL PLANT CO.

Experiment, Ga.

## Immediate Delivery

3-year Frame Transplants	Per 1000
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850 Canadian Hemlock, 10 to 12 ins.	\$200.00
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850 Canadian Hemlock, 8 to 10 ins.	175.00
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1350 Canadian Hemlock, 6 to 8 ins.	150.00
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2000 Taxus Cupidata, 8 to 12 ins.	350.00
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1000 Taxus Cupidata, 6 to 8 ins.	250.00
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600 Deutzia Gracilis, 1-yr. transplants	75.00
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7000 Taxus, assorted varieties, 3-yr. pots	350.00
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20,000 Taxus, assorted varieties, 2-yr. pots	250.00
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500 Pyr. Arborvitae, 3-in. pots	350.00
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1000 Pyr. Arborvitae, 2 1/2-in. pots	200.00
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500 Woodward Arborvitae, 2 1/2-in. pots	200.00
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\$500 Taxus Andersoni, unrooted, stripped	30.00
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2500 Taxus Cupidata, unrooted, stripped	30.00
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## HUMPHREYS LANDSCAPE SERVICE

Mount Sterling, Ky.	
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## QUALITY LINERS

Each	
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Rosaeflora, 2 to 4-in. spread	\$ 0.25
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Gumpo, 2 to 4-in. spread	.25
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Mollis Flame, 2 to 4-in. spread	.25
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Mollis Flame, 4 to 6-in. spread	.40
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Mollis Cream, 4 to 6-in. XX, budded	.40
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Daphne Cneorum	.12
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Daphne Mezereum Rubra, 4 to 6 ins.	.12
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6 to 8 ins., X	.15
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8 to 10 ins., X	.20
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## HEATHER

Carnea Rosea, 2 to 4 ins., X	.15
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King George, 2 to 4 ins., X	.15
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Medit. Alba, 2 to 4 ins., X	.12
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Medit. Hybrid, 2 to 4 ins., X	.12
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Mrs. J. H. Beale, 2 to 4 ins., X	.15
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Mrs. Maxwell, 2 to 4 ins., X	.15
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Springwood, white, 2 to 4 ins., X	.15
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Juniperus Tamariscifolia	.10
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2 to 4 ins., X	.15
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4 to 6 ins., X	.15
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6 to 8 ins., X	.15
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Lily of the Valley pips, per 1000	\$35.00
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Raphiolepis Ovata, 2-yr., X	.15
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Skimmia Japonica, 4 to 6 ins., X	.15
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Skimmia Japonica, variegated, 4 to 6 ins., X	.15
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Thuja Pyramidalis, 4 to 6 ins., X	.15
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Thuja Woodwardi Globosa, 2 to 4 ins., X	.12
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Thuja Woodwardi Globosa, 4 to 6 ins., X	.14
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Viburnum Burkwoodi, 2 to 4 ins.	.30
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Viburnum Davidi, 2 to 4-in. spread	.50
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4 to 6-in. spread	.75
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6 to 8-in. spread, XX	1.00
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Retinospora Obtusa Crippsi	.45
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10 to 12 ins., X	.25
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Chamaecyparis Lawsoniana Stewarti, 10 to 12 ins., X	.35
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Cash with order, please.

## FOUR STAR NURSERY

Route 3, Box 3529	Edmonds, Wash.
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## FRENCH HYBRID LILACS

All our OWN ROOTS—No grafts.

Vigorous, true to name, top quality: should make real specimen plants. Small surplus, beyond our present retail needs, still available for spring shipment:

Each	
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105 Conco (rich red-purple), 8 to 12 ins.	.40c
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45 Conco, 12 to 18 ins.	.55c
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30 Lucie Ballet (shell-pink), 8 to 12 ins.	.40c
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20 Lucie Ballet, 12 to 18 ins.	.55c
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F.O.B. nursery. Cash with order; no packing charge. No orders for less than 5 of a kind.

## UPTON NURSERY CO.

Lilac Specialists	
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## SHRUBS AND TREES—Continued

AZALEA KAEMPFERI	2 to 2½ ft., B&B.....	3.00 each
	2½ to 3 ft., B&B.....	3.50 each
AZALEA MOLLIIS	2-yr., T. 4 to 8 ins.....	16.00 per 100
	3-yr., TT, 8 to 12 ins.....	55.00 per 100
	(br., some with buds).....	
4-yr., TT, B&B, 12 to 16 ins.	(2 buds and up).....	150.00 per 100
4-yr., TT, B&B, 15 to 18 ins.	(well-budded).....	200.00 per 100
1½ to 2 ft., B&B.....		2.50 each
2 to 2½ ft., B&B.....		3.00 each
2½ to 3 ft., B&B.....		3.50 each
BERBERIS THUNBERGII (very heavy)	18 to 24 ins.....	22.00 per 100
	24 to 30 ins.....	28.00 per 100
DEUTZIA PRIDE OF ROCHESTER	4 to 6 ft., heavy.....	70.00 per 100
EUONYMUS VEGETUS	15 to 18 ins., B&B.....	1.10 each
	18 to 24 ins., B&B.....	1.50 each
FORSYTHIA SPECTABILIS	4 to 6 ft., heavy.....	70.00 per 100
LEUCOTHOE CATESBAEI	18 to 24 ins., B&B.....	1.75 each
	24 to 30 ins., B&B.....	2.00 each
ROSA MULTIFLORA JAPONICA	1 to 2 mm.....	
	8 to 12 ins. in height.....	10.00 per 1000
	2 to 3 mm.....	
	12 to 15 ins. in height.....	15.00 per 1000
	3 to 4 mm.....	
	15 to 18 ins. in height.....	18.00 per 1000
	4 to 6 mm.....	
	18 to 24 ins. in height.....	35.00 per 1000
SPIRAEA VANHOUTTEI	4 to 6 ft., heavy.....	60.00 per 100
COOK'S NURSERIES	Geneva, O.	

## AZALEAS

Transplanted rooted cuttings our specialty.  
Hinodegiri - Amoena - Indica Alba and named Kaempferi Hybrids, all colors.  
\$15.00 per 100; \$140.00 per 1000  
Hinodegiri and Kaempferi varieties.  
2-yr. bed-grown, 4 to 6 ins., B&B.....50c each  
3-yr. bed-grown, 6 to 8 ins., B&B.....70c each  
Field-grown varieties.  
Hinodegiri, Kurume varieties, Kaempferi and others, such as: Snow, Cleopatra, Othello, Betty, Mauve, Flame, Yodogawa, Indica Alba, Hinomayo, Mary and Amoena.  
12 to 16 ins., B&B.....\$2.00 each per 10  
1.75 each per 10  
15 to 18 ins., B&B.....2.75 each per 10  
2.25 each per 10  
EVERGREEN ROOTED CUTTINGS  
FROM GREENHOUSE  
Taxus, Juniper pfitzer, Juniper Hetzi, Juniper stricta, Arborvitae, Retinospora, Pyracantha, Ilex and Andromeda.  
\$10.00 per 100; \$90.00 per 1000.  
DOGWOODS (Young Specimen Material)  
White Dogwood.....Each Per 10 Each Per 100  
4 to 5 ft., B&B.....\$4.75 \$4.25  
5 to 6 ft., B&B.....6.00 5.00  
6 to 7 ft., B&B.....8.50 7.00  
Pink Dogwood.....3.50 3.25  
2 to 3 ft., B&B.....6.00 5.50  
3 to 4 ft., B&B.....6.00 5.50  
Weeping Willow (Salix Babylonica)  
Well-formed trees, 10 to 12 ft., B&B.....\$9.50  
The above prices are dug, F.O.B. our nursery.

DEKALB NURSERIES, INC.  
Box 67, Norristown, Pa.  
Phone: Norristown 5-1597

## CHINESE BLIGHT-RESISTANT CHESTNUT TREES

Regular-Grade Seedlings	Per 10	Per 100	Per 1000
3-yr., 4 to 5 ft.....	\$13.00	\$110.00	
3-yr., 3 to 4 ft.....	10.00	95.00	\$850.00
2-yr., 2 to 3 ft.....	8.00	75.00	650.00
2-yr., 18 to 24 ins.....	6.50	60.00	550.00
Commercial-Grade Seedlings (Light Grade)	Per 10	Per 100	Per 1000
3-yr., 3 to 4 ft.....	8.00	80.00	750.00
2-yr., 2 to 3 ft.....	7.00	60.00	540.00
2-yr., 18 to 24 ins.....	5.00	45.00	400.00
Lining-Out Stock, 2-yr.-old.	Per 100	Per 1000	
Special, 12 to 18 ins., 4/16 to 4/16-in. cal.....	\$26.00	\$250.00	
No. 1, 12 to 18 ins., 3/16 to 4/16-in. cal.....	18.00	175.00	
No. 2, 9 to 12 ins., 2/16 to 3/16-in. cal.....	15.00	140.00	
No. 3, 6 to 9 ins., about 2/16-in. cal.....	11.50	105.00	
Lining-Out Stock, 1-yr.-old	Per 100	Per 1000	
No. 1, 12 to 18 ins., 3/16 to 4/16-in. cal.....	15.50	145.00	
No. 2, 9 to 12 ins., 2/16 to 3/16-in. cal.....	12.00	110.00	
No. 3, 6 to 9 ins., about 2/16-in. cal.....	8.00	75.00	

THE GOLD CHESTNUT NURSERY  
Wholesale Grower  
Cowen, W. Va.

FOREST TREE SEEDLINGS (Collected)	Per 1000
Sugar Maple	\$10.00
4 to 6 ins.....	
6 to 12 ins.....	20.00
12 to 18 ins.....	40.00
White Birch (Betula Populifolia)	
1 to 2 ft.....	25.00
2 to 3 ft.....	35.00
Good stock, carefully collected and packed.	

Cash, please.  
R. M. COLE

Box 37

Charlotte, Vt.

## LANDSCAPE MATERIAL

Abies Balsamea, 6 to 8 ft.....	Each 16.00
Althaea Syriacus (red), 6 to 8 ft.....	10.00
Amelanchier Canadensis, 12 to 14 ft.....	35.00
Cedrus Atlantica Glauca, 12 to 14 ft.....	200.00
Cercis Canadensis, 7 to 8 ft.....	8.00
Chamaecyparis Crippsii, 7 to 8 ft.....	20.00
Cornus Florida, 10 to 12 ft.....	35.00
Cotoneaster Divaricata, 3 to 4 ft.....	4.40
Halesia Tetraptera, 10 to 12 ft.....	50.00
Juniperus Hetzi, 4 to 5 ft.....	12.00
Juniperus Stricta, 3 to 4 ft.....	3.50
Magnolia Water Lily, 7 to 8 ft.....	50.00
Malus Ioensis Plena, 6 to 7 ft.....	10.00
Pinus Thunbergi, 7 to 8 ft.....	40.00
Spiraea Vanhouttei, 4 to 6 ft.....	4.00
Syringa (hybrid seedlings), 4 to 5 ft.....	4.00
Jasur Capitul, 4½ to 5 ft.....	20.00
Taxus Repandens, 4 to 5 ft.....	40.00
Thuja Douglasi, 9 to 10 ft.....	22.00
Thuja Rosenthalii, 8 to 9 ft.....	16.00
Viburnum Carlesii, 3 to 4 ft.....	8.50
Shade Trees in Variety	

GEORGE F. BLOOMER NURSERIES  
Route 69, Flemington, N. J. Tel. 155

## SPRING BARGAINS

Seedlings	Per 100	Per 1000
Cherry Mahaleb		
No. 1—3/16 to ¼-in. cal.....	\$2.30	\$18.00
No. 2—¼ to 3/16-in. cal.....	1.75	14.00
No. 3—about ¼-in. cal.....	1.00	8.00
Chinese Elm		
Grade 6 to 12 ins.....	1.00	6.00
Grade 12 to 18 ins.....	1.50	12.00
Grade 18 to 24 ins.....	2.00	15.00
Russian Olive		
Grade 6 to 12 ins.....	1.50	12.00
Grade 18 to 24 ins.....	3.50	28.00
Grade 2 to 3 ft.....	5.00	42.00
American Elm		
Grade 6 to 12 ins.....	.75	4.00
Caragana Arborecens		
Grade 6 to 12 ins.....	1.50	10.00
Grade 12 to 18 ins.....	2.00	15.00
Immediate delivery. All prices quoted F.O.B. Manhattan, Kan. Boxing and baling extra at cost.		

ROGERS WHOLESALE NURSERY  
Box 132  
Winfield, Kan.

Magnolia grandiflora, potted last spring, except the 2½-in., which were done last August. Present seedling crop going to pots January 1, and will be ready March 15. Expect to fill orders for 2½-in. until August potting exhausted, then start with January 1 potting.  
2½-in. pot, 2 ins. and up.....Per 100 \$15.00  
2-in. pot, 6 to 10 ins.....20.00  
4-in. pot, 8 to 12 ins.....35.00  
4-in. pot, 12 to 18 ins.; few left.....50.00  
Gallon cans and larger at nursery.

2-yr., row-run, 1 bed, 8 to 18 ins.	Per 100
2-yr., row-run, 1 to 3 ft.....	\$20.00
2-yr., 12 to 18 ins.....	25.00
2-yr., 18 to 24 ins.....	40.00
2-yr., 2 to 3 ft.....	50.00
Cash with order and no charge for packing.	
Shipment of bare-root items until about April 10.	

HARWELL NURSERY Van Buren, Ark.

## LINING-OUT STOCK

10,000 Azalea Molliis (Chinese Azalea), From Seed, Mixed Colors.	Per 100
2-yr., X.....	\$18.00
4,000 Ilex Convexa (Bullata), 1-yr., X.	
4 to 6 ins.....	20.00
1,000 6 to 8 ins.....	25.00
15,000 Rooted cuttings (June 1)	10.00
700 Taxus Densa, 4-yr., XX.	
9 to 12 ins.....	65.00
200 Taxus Hatfieldi, 4-yr., XX.	
12 to 15 ins.....	65.00
10,000 Taxus Cupidata	Per 100
1-yr. BEDDED OUTDOORS	15.00
2,000 Taxus Henryi	15.00
1,000 Taxus Hicksii	15.00
Cash with order, 2 per cent discount.	
Free Packing.	

BROOKFIELD GARDENS  
Rt. 46 Delaware, N. J.CONTAINER-GROWN NURSERY STOCK  
Broad-leaved Evergreens, Conifers

Burfordi Holly, 18 to 24 ins.....	Per 100
Cherry Laurel, 12 to 18 ins.....	\$1.25
Waxleaf Ligustrum, 18 to 24 ins.....	1.00
Euonymus Japonica, 12 to 18 ins.....	.80
Euonymus patens, 12 to 18 ins.....	.80
Elaeagnus monti, 12 to 18 ins.....	.70
Cotoneaster parneyi, 2 to 3 ft.....	.80
Hypericum, 12 to 18 ins.....	1.00
Senecio, 12 to 18 ins.....	1.00
American Holly, 12 to 18 ins.....	.75
Pyracantha, 2 to 3 ft.....	1.10
Pineapple Guava, 18 to 24 ins.....	.80
Arizona Cypress, 18 to 24 ins.....	.80
Baker Arborvitae, 18 to 24 ins.....	.75
Terms—Net cash with order.	

BAKER BROS. NURSERY  
105 N. Chandler Fort Worth, Tex.  
Phone VI-2222 P. O. Box 828

## LOMBARDY POPLAR LINERS

3 to 4 ft.....	\$50.00 per 1000
4 to 5 ft.....	70.00 per 1000
5 to 6 ft., lightly br.....	90.00 per 1000
6 to 8 ft., heavy.....	60.00 per 100

PAUL'S NURSERY R. D. 3, Shelby, O.

## NURSERY STOCK

Acer Palmatum (green-leaved)	Per 100	Per 1000
Japanese Maple, 1-yr. seedlings, 4 to 10 ins.....	\$ 6.00	\$ 50.00
Beach Plum, strong 1-yr. seedlings, 10 to 18 ins.....	10.00	75.00
Biota Orientalis, 2-yr. seedlings, 6 to 12 ins.....	5.00	30.00
Cotoneaster in varieties (see our display ad)		
Larix Leptolepis, 2-yr. seedlings, 10 to 15 ins.....	12.00	100.00
Magnolia Soulangeana, 6 to 12 ins.....	55.00	500.00
1-yr. tr., cuttings, 5 to 8 ins.....		

C. HOOGEBOORN  
Turner Road Newport, R. I.

## SALABLE STOCK

50 Thuja Occidentalis Globosa, 18 ins.	Each \$2.25
100 Thuja Occidentalis Pyramidalis, 6 ft.....	6.25
100 Thuja Occidentalis Pyramidalis, 5 ft.....	5.00
50 Thuja Occidentalis Woodwardii, 2 ft.....	3.00
50 Tuga Canadensis, 3 ft.....	5.00
2000 Ligustrum Amurensis, 2 to 3 ft., \$170.00 per 1000.	
Truckloads only, Cash.	

LANDSCALE CLINIC Dover, N. H.

## OUR OWN GROWING

1000 Pfitzer Juniper, 24 to 30 ins.....	Per 100 \$375.00
100 Hetz Juniper, 24 to 30 ins.....	375.00
100 Hetz Juniper, 18 to 24 ins.....	350.00
50 Savin Juniper, 24 to 24 ins.....	375.00
25 Globe Von Ehrh Juniper, 3 ft.....	475.00
50 Magnolia Stellata, 2 to 4 ft.....	600.00
Euonymus Patens	
Field-grown, bare-root	
15 to 18 ins.....	\$50.00 per 100
18 to 24 ins.....	75.00 per 100

BRUENING'S NURSERIES  
Higginsville, Mo.

Russian Mulberries, 4 to 5 ft., 1.00 each.	Per 100
Chinese Chestnut (blight resistant), 3 to 4 ft.....	\$60.00
4 to 5 ft.....	70.00
5 to 6 ft.....	80.00
6 to 7 ft.....	90.00
If less than 10 trees are ordered, please add 10c per tree for packing; more than 10 trees, packing free.	

Phone 378  
HOME NURSERY CO. Fort Gay, W. Va.

Berekmans Golden Arborvitae	Each	Per 100
24 to 30 ins.....	\$2.00	
30 to 36 ins.....	2.50	
Magnolia Grandiflora		
18 to 24 ins.....	1.00	
24 to 30 ins.....	1.35	
36 to 36 ins.....	1.75	
Nandina, 18 to 24 ins.....	1.10	
MUSKOGEE GREENHOUSE CO.		
1700-1900 Locust St.	Muskogee, Okla.	

Beauty Bush, 18 to 24 ins.....	Each \$0.50	Per 100 \$45.00
2 to 3 ft.....	.60	.55
Lilac, Rothomagensis, 18 to 24 ins.....	.40	.35
2 to 3 ft.....	.50	.45
Rhubarb, Canadian, Strong divisions, 25.00 per 100, 300 or more at \$22.50 per 100. Cash. Packing free. F.O.B. Marshalltown.		

WHEELER WILSON NURSERY  
Marshalltown, Ia.

## THORNLESS HONEY LOCUST

6 to 8 ft.....	Each \$1.30
5 to 6 ft.....	.90
4 to 5 ft.....	.60

Vigorous, well-branched.  
Write for quotations on orders of 1,000 or more. All prices quoted F.O.B. Lubbock, Tex. Cash or 25% with order. Balance C.O.D. Packing charged at actual cost.HOLDEN DODSON NURSERY  
2004 29th St. Lubbock, Tex.

Cottonwood Elm, 12 to 18 ins.....	Per 1000 \$20.00
Cottonwood, 18 to 24 ins.....	12.00
Juniper, Virginia Platte type, T, 6 to 12 ins., X.....	70.00
12 to 18 ins., XX.....	85.00
Rosa Multiflora, Thorny, 2/16 to ¼-in. cal.....	25.00
Russian Olive, 6 to 12 ins.....	25.00
Russian Olive, 12 to 18 ins.....	35.00

HOME NURSERY Cuba, Kan.

VIBURNUM BURKWOODI, also called Gardenia-Scented Wonder shrub; we offer out of 2½-inch pots, strong well-established plants at \$7.50 per 25; \$25.00 per 100; \$225.00 per 1000.

THE KRIDER NURSERIES, INC.  
Middlebury, Ind.SWEET GUM TREES  
2½-in. pot-grown. Well-established, ready for delivery.  
\$15.00 per 100.  
VERHALEN NURSERY CO.  
Scottsville, Tex.



## IBOLIVUM PRIVET

This is extra-heavy Privet for immediate effect, which could be used for parkways or housing jobs. They are about 30 ft. wide, 3 to 4 ft. .... \$75.00 per 100  
4 to 5 ft. .... 100.00 per 100  
We cannot afford to sell small quantities of these and pack them. These are offered to be shipped by truck or car only.

## C. HOOGENDOORN

Turner Road Newport, R. I.

## CHINESE ELM

	Per 10	Per 100
2 to 2 1/2-in. cal.	\$27.50	\$250.00
2 1/2 to 3-in. cal.	32.50	300.00
3 to 3 1/2-in. cal.	40.00	375.00

These trees are straight, well-branched and heavily rooted. Priced F.O.B. Loveland. Packing at cost and subject to prior sales.

KROH BROS. NURSERIES

Loveland, Colo.

## CRAB APPLE GRAFTS

ELEYI

DOLGO

HOFA

\$10.00 per 100. \$85.00 per 1000.

Prepaid for cash with order.

We do contract grafting. Write for particulars.

PRITCHARD NURSERIES, Route 4.

Ottawa, Kan.

## EUROPEAN WHITE BIRCH

Well-branched, Transplanted

	Each
100 18 to 24 ins.	10c
200 2 to 2 1/2 ft.	15c
200 2 1/2 to 3 ft.	20c
150 3 to 3 1/2 ft.	25c

No packing charge. Remit with order.

R. BRUMOND SMITH NURSERY

1201 E. 26th St. Muncie, Ind.

## SHRUB LINERS

Per 100 Per 1000

	Per 100	Per 1000
Aronia Arbutifolia Brilliantissima.		
8 to 12 ins., 1-yr. seedlings	\$ 8.00	\$75.00
4 to 6 ins., 1-yr. seedlings	4.00	35.00
Deutzia Gracilis, 4 to 6 ins.	10.00	90.00
Foraythia Spring Glory,		
4 to 6 ins.	10.00	90.00
2 to 4 ins.	6.00	50.00

(All above liners 200 at 1000 rate)

PLANE VIEW NURSERY, NEWPORT, R. I.

## AMUR RIVER NORTH PRIVET

Excellent stock, well-bred.

	Per 100	Per 1000
12 to 18 ins.	\$3.00	\$20.00
18 to 24 ins.	4.00	25.00
2 to 3 ft.	5.00	30.00
3 to 4 ft.	6.00	40.00

Orders filled promptly.

TIDWELL NURSERIES

Greenville, Ga.

## CHINESE ELM

Per 10 Per 100

	Per 10	Per 100
4 to 5 ft.	\$ 6.00	\$ 50.00
5 to 6 ft.	8.50	75.00
6 to 8 ft.	12.50	110.00
8 to 10 ft.	20.00	175.00
10 to 12 ft.	35.00	300.00

WAYNESBORO NURSERIES

Waynesboro, Va.

	Per 10	Per 100
FLOWERING PEACH—Pink, Red, White		
2 to 3 ft.	\$ 5.00	\$45.00
3 to 4 ft.	6.50	60.00
4 to 5 ft.	8.00	75.00
5 to 6 ft.	10.00	90.00

WAYNESBORO NURSERIES

Waynesboro, Va.

	Per 100	Per 1000
ULMUS PUMILA (Chinese Elm Liners)		
6 to 12 ins.	\$1.50	\$10.00
12 to 18 ins.	2.00	15.00
18 to 24 ins.	3.00	25.00
2 to 3 ft.	4.00	35.00

GRUNDY'S GARDENS

Anton, Tex.

	Per 10	Per 100
PAUL'S SCARLET THORN, 2-yr., branched, 8 to 10 ft.	\$1.75	each
EUROPEAN WHITE BIRCH, 5 to 6 ft., branched, sec each in lots of 10 or more.		

VILLA NURSERIES

Montavilla Sta. P. O. Box 5137

Portland 16, Ore.

## PRIVET

	Per 100	Per 1000
Thousands Amur River North 12 to 18 ins.	\$2.00	per 100; \$4.00 per 1000; 4 to 6 ft., \$5.00 per 100.

Attractive price on 1000 or more lots.

WOODLAWN NURSERY

Greenville, Ga.

## ACER SACCHARUM

(Sugar or Hard Maple)

	Per 100
150 8 to 10 ft., branched	\$125.00
50 10 to 12 ft., branched	160.00

WESTERN'S NURSERY

Watervliet, Mich.

	Per 100
EUONYMUS ALATUS COMPACTA 1-yr. transplants, 4 to 7 ft.	\$25.00 per 100

C. HOOGENDOORN

Turner Road Newport, R. I.

Hardy northern-grown L. O. and finished stock, B&B Colorado Blue Spruce, Shrubs, Perennials, hardy Ferns and Hedging.

THE PEQUOT NURSERIES, Brainard, Minn.

Surplus Stock

can be easily and quickly turned into

by listing it in the

American Nurseryman Classified Ads.

## VEGETABLE PLANTS

## WHOLESALE PRICE LIST, 1953

Plant variety	Date ready	Per 1000
Cabbage	Now	\$2.00
Collards	Now	2.00
Onion	Now	1.25
Lettuce	Now	3.50
Broccoli	March 15	3.50
Cauliflower	March 15	5.50
Pepper	April 15	4.00
Eggplant	April 15	4.00
Tomato	April 15	3.50
Hybrid Tomato	April 15	5.50

All above prices F.O.B. Albany.  
Leading Variety Writer for Catalog.  
Large, Fresh Plants. Prompt Shipment.  
Satisfaction Guaranteed. Write or Wire:  
PIEDMONT PLANT CO.  
Box 946, Albany, Ga.

## ASPARAGUS

WASHINGTON—1-yr. Well-formed and graded plants. Will dig as soon as weather permits.

Per 100—\$2.00; Per 1000—\$12.00  
ROUDEBUSH GARDENS Rt. 3, Box 397  
Dayton 4, O.

## VEGETABLE ROOTS

ASPARAGUS ROOTS, 1-yr., No. 1.  
MARY WASHINGTON AND PARADISE.  
Chipman's strain Canada Red rhubarb,  
No. 1 divisions.  
CHAPMAN'S BERRY FARM  
East Leroy, Mich.

MARY WASHINGTON ASPARAGUS, 1 and 2-yr. in any quantity for immediate or later shipment. Chipman Rhubarb No. 1 divisions, ship any time.  
C. D. WRIGHT Hamburg, Ia.

Advertiser's Experience Shows  
American Nurseryman Classified Ads  
Bring Results.

## VINES

Wistaria Sinensis (blue), strong 2-yr. grafts, field-grown. This is the true Sinensis which has the short truss and deeper color. It blooms heavily before any foliage appears and also blooms intermittently throughout the summer.

Wistaria Rosea (pink), strong, 2-yr. grafts, field-grown. All these acions were taken from heavy-flowering plants.

\$75.00 per 100.  
C. HOOGENDOORN Newport, R. I.

## HONEYSUCKLE

Lonicera haliana Japonica  
Heavy 2, 3 and 4 yrs. No. 1 field plants, 3 to 4 leads, 18 to 24 ins., carefully graded. \$4.00 per 100, \$30.00 per 1000.

Lonicera sempervirens, Scarlet-red.  
Heavy 18 to 24 ins., \$10.00 per 100, \$80.00 per 1000. No orders too large; immediate shipment.

## WOODLAWN NURSERY

Greenville, Ga.

## SUPPLIES

## BURLAP

## NURSERY BURLAP

Ready for prompt delivery. Burlap sheets sewed in continuous lengths. Accurately cut burlap squares for bailing purposes. Merchandise made from selected, used burlap and burlap bags. No oily, smelly, or chemical stock. No old rag bags. All vacuum machine cleaned and holes seamed. Send for sample square and low prices.

Orders taken now for Spring, 1953, delivery at present low prices.

STERLING BAG &amp; BURLAP CO.

41 Carolina St. Buffalo 1, N. Y.

Watch Your Results From  
American Nurseryman Classified Ads.

## FLATS

## FLATS

Made from a good grade of Southern Yellow Pine dipped in Rot Not wood preserver for longer life.

Standard specifications, inside measurements.  
16 x12x2 1/2 ..... \$20.38 per 100  
16 x14x3 ..... 27.06 per 100  
20 x14x2 1/2 ..... 26.61 per 100  
20 x14x3 ..... 31.07 per 100  
22 x15x2 1/2 ..... 30.49 per 100  
22 x15x3 ..... 35.35 per 100

All other sizes quoted on request. Prices F.O.B. Birmingham, Ala. We are manufacturers, not jobbers. Our quality guaranteed. Prompt shipment on any quantity. Mixed shipments of Flats, Plant Boxes and Spray Boards. Write for our price list on these items. Attach check to order.

HIGHTOWER BOX &amp; TANK CO.

P. O. Box 1449

Birmingham 1, Ala.

## CLEMATIS MONTANA RUBENS

(Pink-flowering Anemone clematis)

## Strong field-grown plants

3 to 4 ft. staked

\$100.00 per 100.

## C. HOOGENDOORN

Turner Road Newport, R. I.

ZABELI HONEYSUCKLE—Heavy, excellent stock, machine dug, at a bargain. 4 to 5 ft., 40c; 5 to 6 ft., 45c. Cash with order. Free packing. Place your order early at these low prices.

HOME NURSERY La Fayette, Ill.

CLEMATIS: JACKMAN, RAMONA and HENRY—Well-established plants in 3-inch pots. Individually wrapped and staked, \$50.00 per 100. Packing and boxing at cost.

NEBRASKA NURSERIES, INC.,

815 "O" St. Lincoln 8, Neb.

Hall's Honeysuckle, large, extra-heavy, 2 and 3-year plants, carefully graded, \$4.00 per 100; \$30.00 per 1000. Good reduction on quantity orders. Immediate shipment.

TIDEWELL NURSERIES, Greenville, Ga.

Turn Stock into Dollars

by Listing It in the Classified Ads

of the American Nurseryman.

## MISCELLANEOUS

Rosa Multiflora Japonica Thornless—is the best for budding purposes. 30,000 12-in. cuttings, handmade, \$3.00 per 100; \$10.00 per 1000.

French Pussy Willow, 2-yr., 3 to 5 ft. Per 10, \$5.00; per 100, \$40.00.  
FINGER LAKES NURSERIES Geneva, N. Y.

## WANTED

WANTED: For Spring Shipment.

Lavanderia Vera (Munstead Dwarf) lavender cilage, 4 to 5-in. plants; Pachyandra (Ground Cover), blue; Ligustrum Compactum, 18 to 24 ins.; Abelia, everblooming, pink-flushed, 18 to 24 ins.; Euonymus Patens (Spreading Euonymus), 15 to 18 ins.; Jasminum Nudiflorum (Winter Jasmine), 15 to 24 ins.; Nandina Domestica (Heavenly Bamboo), 15 to 18 ins.

Please send your wholesale price list to:

L. E. STONE &amp; CO., INC.

P. O. Box 327 Lombard, Ill.

## WANTED

CHRYSLER IMPERIAL ROSES—No. 1. If you have any amount of Chrysler Imperial No. 1 from 20 to 500, wire or phone collect, Northern or California-grown only.

STANEK'S NURSERY

E. 2929 29th Ave. Spokane, Wash.

## WANTED

Immediate quotations on 250 Moline Elms,

6 to 8 ft., or 8 to 10 ft.

WKY NURSERY &amp; GREENHOUSE

Box 8668, Britton Sta. Oklahoma City, Okla.



**HAY**

MARSH HAY FOR MULCHING  
Clean; no weeds. Truckloads or carloads.  
KOPFF HAY CO.  
Beaver Dam, Wis.

**LABELS**

TA-LABELS.—The all-aluminum labels. Embossed with ordinary pencil. Same as writing. Rustproof and everlasting. Tree and pot type at \$4.75 per 1000; \$2.75 per 500.  
QUALITY PRINTING—QUICK SERVICE.  
Statements, letterheads, envelopes, certificates. Gummed stickers, \$1.50 per 1000. Business cards, \$4.00 per 1000. All prices are postpaid. Write today for samples and prices.  
SHELL NURSERY Birmingham 5, Mich.

**ORCHID SUPPLIES**

OSMUNDA: Fresh-cut "live" fiber at all times.  
Professional bag, \$2.50; Bushel, \$5.00  
Standard Bale, \$12.00  
PLASTIC LABELS—Copper or nickel-bearing Wire.  
Pot, 1/2 by 3 1/2 ins. .... \$1.50 \$4.95 \$ 9.50  
Pot, 3/4 by 4 ins. .... 1.95 7.95 15.00  
Orchid Spec., 5/8 by 4 1/2 ins., red, blue, green, yellow and white .... 2.10 8.95 16.00  
Wired, 5/8 by 2 ins., white... 1.95 7.95 15.00  
5/8 by 3 1/2 ins., white... 2.15 9.00 17.00  
5/8 by 3 1/2 ins., blue, green, red and yellow... 2.25 9.45 18.00  
White Strap Label, 5/8 by 6 1/4 ins. .... 2.10 8.95 16.00  
—Special—  
NEW PRICE—ORIGINAL BUBBLE VASE LAPEL PINS, \$1.25 doz. 2, 3, 5-in. Orchid tubes with rubber caps, 60c per doz., \$4.10 per 100.  
WRIGHTWOOD FLORAL CO., INC.  
2407 N. Main St. Houston 9, Tex.  
Prices F.O.B. Houston. Subject to change without notice.

**STAKES**

CYPRESS PLANT STAKES  
50 Pieces to Bundle.  
1x1-in.—3 ft., pointed.....\$2.50 per bundle  
1x1-in.—4 ft., pointed..... 3.50 per bundle  
1x1-in.—5 ft., pointed..... 4.50 per bundle  
1x1-in.—6 ft., pointed..... 5.50 per bundle  
1x1-in.—7 ft., pointed..... 7.00 per bundle  
These stakes are made of cypress and redwood, are good, strong stakes and will give long service. "A little better than seems necessary."  
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STAKES, GALVANIZED HARD STEEL.  
STAKE FASTENERS and COTTON TWINE.  
Prices and samples sent upon request.  
SCHUPP SUPPLY CO., Wilmette, Ill.

**NEW CONTROL SUCCESSFUL FOR GREENHOUSE PESTS**

A new organic insecticide has given the answer to two difficult-to-control greenhouse pests, experiments recently conducted by John C. Schread, entomologist at the Connecticut agricultural experiment station, New Haven, show. The pests are the greenhouse mealy bug and the euonymus scale; the insecticide is Malathion, an organic phosphate, similar to others on the market in its high insect-killing power, but far less toxic to man and animals.

The greenhouse mealy bug is a sucking insect, which affects a wide variety of greenhouse plants, causing them to wilt and die. Once this pest has established itself in a greenhouse, it multiplies rapidly; four or five generations a year may occur.

The adult female mealy bugs exude a white, waxy substance which covers their bodies as well as appearing on the stems and leaves of plants as small, white patches of "cotton,"

**PEAT**

COLBY PIONEER PEATS  
GRANULATED PEAT MOSS (ACID)  
2 1/2-bu. plastic-lined bags, approx. wt. 35 lbs. Each  
1 to 10 bags.....\$1.25  
10 to 25 bags..... 1.15  
25 or more..... 1.00  
HI-NITROGEN HORT PEAT (NEUTRAL)  
2 1/2-bu. plastic-lined bags, approx. wt. 50 lbs. Each  
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Each  
2 1/2-bu. plastic-lined bags, approx. wt. 75 lbs. Each  
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Car or truck delivered quotations on Bulk or Packages  
Bulk or Packages  
Gladly furnished.  
F.O.B. Hanlontown, Ia.  
Terms: 2 per cent cash discount.  
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WISCONSIN'S QUALITY SPHAGNUM MOSS.  
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The finest collection of 35-mm. single and stereo close-up flower portraits on the market. For increasing the sale of plant material show your customers the beautiful depth and solidity of 3-dimensional pictures of plant blooms. These are the standard 35-mm. stereo frames so that either one of the stereo pairs can be used in a single 35-mm. projector. They give greater detail than the smaller stereo frames.  
Complete 18-page catalog, listing the names of over 1800 Tree, Shrub, Vine, Garden, Cactus and Fruit Blossoms with large selections of Azaleas, Camellias and Roses for 50c. This charge will be deducted from your first order of 10 or more slides.  
A stereo viewer for viewing the above stereo slides for only \$1.50. Stereo slides, \$1.00 each; single 35-mm. slides, 50c.  
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GEORGE J. FARNHAM, 2225 Colorado Ave., Santa Monica, Calif. Phone EXbrook 4-9124

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Cut labor costs. Use goslings to weed seedbeds, shrubs, evergreens, roses and other plantings. Also orchards, vineyards, berries, etc. Free booklet tells how.  
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**WANT ADS**

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Lines: 30c line; Minimum order \$3.00.

**Additional Want Ads on Following Page****SITUATION WANTED**

Expert Dutch nurseryman, fully experienced in nursery work and salesmanship, desires permanent position as nursery superintendent or salesman for a respectable, progressive wholesale nursery in the east.

Experience gained both at Boskoop, Holland, and in the United States. Middle-aged, married. House must be available for small family. NEW JERSEY, NEW YORK OR CONNECTICUT PREFERRED. Address Box 934, care of American Nurseryman.

**SITUATION WANTED**

Looking for sales or research position with progressive nursery in northeast. 20 years' sound training and experience. Knowledge plant breeding. No landscape. Married, 40 years old. Available immediately. Address Box 947, care of American Nurseryman.

**SITUATION WANTED**

Landscape design and sales. Artistic Gardens British School of Design. Can undertake all construction and planting in any part of U.S.A. and all any position in nurseries or general horticulture. Address Box 946, care of American Nurseryman.

FOR SALE—Landscaping and/or tree surgery business, with or without equipment. This is a gold mine for the right person. For complete information, write: TREE SERVICE, Box 705, South Norwalk 17, Conn.

making the bug easy to identify. This waxy secretion resists many insecticides and makes control difficult.

Mr. Schread found, however, that applications of Malathion brought the pest completely under control. A 100 per cent kill of young and adults was obtained when one quart of 50 per cent Malathion emulsion in 100 gallons of water was used. A pressure sprayer was used in the experiments. The application was made when few eggs were present on the plants and no repeat treatment was necessary, since none of these eggs hatched following the spray. Mr. Schread believes, however, that if large numbers of deeply embedded eggs had been on the foliage, a second treatment might have been necessary to kill all of them.

In the case of scale infesting young euonymus plants in the greenhouse, somewhat higher dosages were necessary. The adult female euonymus scale is a small, black insect, broad at one end and narrow at the other,

which can be observed feeding on the stems of plants. Its hard shell-like covering makes it difficult to kill. Malathion did the trick, however, at a concentration of one gallon of emulsion in 100 gallons of water.

When sprays were put on two weeks after the young had hatched, the crawlers were almost all killed with sprays of one pint of Malathion emulsion in 100 gallons of water. Since young scale hatch over a period of weeks, a second treatment was necessary about a week after the first application. If the infestation is severe, a third treatment may be advisable. In a greenhouse kept at 70 degrees Fahrenheit, hatching occurs during January; in one kept at lower temperatures hatching may be delayed until February. A second brood is likely to occur in April.

Besides its efficient control of these pests, Malathion has the added advantage of being low in toxicity to plants. In none of Mr. Schread's experiments did injury to plants occur.



# WANT ADS

(Additional Want Ads on Preceding Page)

## HELP WANTED

### PRODUCTION FOREMAN

To take charge of propagating and growing a complete line of hardy ornamental nursery stock for 100-acre nursery. Established since 1898. Permanent position. Modern 5-room house, convenient to work.

All replies will be treated with complete confidence. Contact TROY'S NURSERIES, INC., Bedford Village, N. Y. Phone BEDford Village 4-3400.

## HELP WANTED

### FOR OUR LANDSCAPE DEPT.

We are looking for a young man who wants to get ahead in an established business with an enviable reputation. Our proposition will appeal to those with drive and willingness to take on responsibility.

Initially, this man will work with our landscape architect; after proving his ability, he will be on his own. First requirement: Integrity and a liking for modern landscape design.

THE COTTAGE GARDENS  
Lansing 15, Mich.

## HELP WANTED

### LANDSCAPE FOREMAN

We want an experienced man with thorough knowledge of plant materials, transplanting methods, etc. Must be capable of supervision of crews and able to read and carry out plans.

We are a leading and rapidly growing midwest nursery and landscape organization. Write your qualifications fully and indicate a time convenient for interview. Top salary and incentive plan.

THE SECOR LANDSCAPE CO.  
3340 Secor Road  
Toledo 6, O.

## HELP WANTED

### A Good Man to Be a Salesman

Skilled in the design of small properties and in planting design, to sell nursery stock and landscape gardening services and materials for a leading New England nursery in the Boston area. A good career opportunity for the right man. Reply to Box 948, care of American Nurseryman.

## HELP WANTED

### LANDSCAPE FOREMAN

Dependable, ambitious man with knowledge of plant materials and planting operations. One capable of handling a crew of men and able to read and carry out plans. Permanent, year-round position with good wages, bonus and unlimited opportunity for advancement.

Include full qualifications, experience and convenient interview times in your reply.

ANGELICA NURSERIES  
R. D. No. 1  
Mohnton, Pa.

## HELP WANTED

### EXPERIENCED PROPAGATOR

Excellent position in wholesale propagating nursery for an alert and progressive man, well-experienced in ornamentals. Good salary, house, pleasant conditions, rural setting (New York City and Philadelphia close by) and other benefits. Established in 1921 and still growing. Please write:

JOHN VERMEULEN & SON, INC.  
Neshanic Station, N. J.

## HELP WANTED

Section foreman for wholesale nursery in Commack; also, yard salesman for Bayside. State experience in first letter.

LEO SCHRACK NURSERIES  
56-33 219th St.  
Bayside, L. I., N. Y.

## HELP WANTED

### PROPAGATOR

Experienced in the propagation of evergreens and ornamental stock in greenhouse and outdoors.

BUNTINGS' NURSERIES, INC.  
Selbyville, Del.  
Phone 2321

## HELP WANTED

Established nursery, operating garden center and landscape business in New Jersey, needs additional men. If you possess experience and ability, address your information to Box 943, care of American Nurseryman.

## HELP WANTED

We need a foreman to take complete charge of planting operations. Must be good supervisor who can take charge of work in territory within 60-mile radius of Philadelphia. Good inducements. Steady work.

AMERICAN FORESTRY SERVICE CO.  
Lancaster, 1/4 mile above City Line  
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### Propagator

Experienced in broad-leaved evergreens and deciduous material. State full particulars in first letter.

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Experienced young man, high school or college graduate preferred, for work in cash-and-carry sales department of our nursery. Wonderful opportunity for right type person to work into responsible position. Write or call for interview after March 1. Hillsdale Landscape Co. R. R. 13, Box 183, Indianapolis, Ind. BR 5493.

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Evergreen nursery 15 miles north of Pittsburgh in expanding territory. 1 1/2 acres, 4000 evergreens, shop with full basement, small greenhouse with automatic gas hot-water heat, 8 coldframes, shade house, 1 1/2-ton truck, Rooteller and all tools, 5-room 1 1/2-story frame house built in 1941, integral garage. Must sell—a reasonable offer. Write: Bill Petherhoff, R. D. 2, Gibsonia, Pa.

## HELP WANTED

Middle-aged landscape gardener for small nursery in Pennsylvania. Good working conditions. House available. Write, stating salary and experience. Open April 1. Address Box 933, care of American Nurseryman.

## HELP WANTED

Tree experts on cavity and general tree work. Top pay. Can also use landscapers and nurserymen. Top pay.

LAUREL NURSERY  
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A flourishing 10-acre nursery, 8 acres filled with choice, medium-size, salable, growing trees, shrubs and evergreens. SKOKIE NURSERIES  
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## HELP WANTED

Nursery-landscape foreman. Baltimore territory. Opportunity later as partner in well-established nursery. Full reply and salary expected. Address Box 927, care of American Nurseryman.

## HELP WANTED

Experienced propagator for nursery stock.

DE KALB NURSERIES, INC.  
Box 67, Norristown, Pa.  
Phone: NO. 5-1597

## SITUATION WANTED

College graduate with ornamental horticulture degree, age 26, married, veteran. Desires position with eastern or midwestern nursery. Experienced in general nursery work and private estate maintenance. Available June 10. Address Box 944, care of American Nurseryman.

## HELP WANTED

Man with some nursery experience who likes plants. Opportunity with established retail nursery. Address Box 945, care of American Nurseryman.

## HELP WANTED

Experienced nurseryman and propagator wanted to assist in management and development of retail nursery. Must be able to sell on or off premises. References required.

FIDDLER'S BOW NURSERY  
Mine Brook Rd.      Bernardsville, N. J.





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#### SNAP-CUT PRUNER

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6 models to choose from. Cut up to 2" branches with ease.

### NEW, FINEST EVER PRUNING SAWS

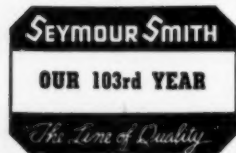


A new Seymour Smith development — the fastest, easiest cutters on the market. Complete line of 6 models covering all requirements up to chain saw work.

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**FREE:** Send for full descriptive matter and prices on all Seymour Smith products for professional pruning and tree care.

Prices slightly higher Denver and West



SEYMOUR SMITH & SON, INC.

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DEALER  
INQUIRIES  
SOLICITED

Oakville, Conn.

### RHODE ISLAND MEETING

[Continued from page 8]

fiscal year. All plant material will be purchased from local nurserymen if it is available.

Mr. Cotter concluded by telling the nurserymen that the establishment of an arboretum in the Lincoln Woods park area is under consideration.

John L. Rego, director of the state department of agriculture, offered his greetings to the nurserymen and congratulated the association on its progress.

Alvin Lannon, administrator of the state agriculture department's division of entomology and plant industry, talked about the activities of the division over the past year. A survey showed that there were 114 nurseries in the state, averaging 859 acres in stock and with a gross sales volume of \$1,726,525. Mr. Lannon traced the growth of the nursery business in the state from the time of the first nursery inspector, which was in 1904, to the present day.

Dr. Theodore W. Keer, entomologist at the University of Rhode Island, talked to the nurserymen about progress in insect control research over the past five years. Dr. Frank L. Howard, also of the university, spoke about a few of the more bothersome plant diseases and Dean Mason H. Campbell, of the university, talked about the great need for a new science building.

#### Present 4-H Awards

The LeRoy Thompson trophies and a number of cash awards were presented to members of Rhode Island 4-H Clubs for their excellent landscape gardening work. Winners of the trophies were Lloyd Essex, Warwick, and Hytho Hascotes, Cumberland.

The meeting of the association ended with the discussion of new business. Martin Van Hoff, Rhode Island Nurseries, Newport, suggested that the association approach the state legislature for funds for research on different phases of horticulture. President Angel asked that Mr. Van Hoff's proposal be referred to a committee for study and his suggestion was carried.

Bob Stewart, Stewart's Nursery, Wakefield, moved that the group study the problem of the University of Rhode Island science building with a view to lending assistance to the funds campaign. The proposal was approved as was a motion to hold executive meetings four times a year. With this last business settled, the meeting was adjourned.

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Allen's Int. Bone Meal, 2 1/4 per cent N, 20  
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ton C.L. \$67.50 ton L.C.L.

ALLEN CO. PITTSBURY, N. J.



## COUNTRY LIFE SHOW

[Continued from page 13]

square feet and was constructed under the supervision of Joseph Roesch, instructor of landscape design.

## Tree Care Exhibited

The exhibit for tree care attempted to dramatize air, water and soil requirements for hungry tree roots. New home construction on Long Island, involving the use of heavy equipment, has often compacted the soil so much that trees frequently are damaged by lack of aeration. Grading has suffocated others by blanketing a root system with heavy fill and gas leakage has, in places, stolen oxygen from the soil, thus asphyxiating tree and lawn areas. The tree care exhibit was intended to answer these and similar problems. It was designed and constructed by students under the direction of Daniel Dowd, instructor of ornamental horticulture.

Preventive measures were illustrated, including the use of tree wells to assure proper aeration where grading may cause heavy fill to fall near root systems. For areas with a high water table, or for low lying land where drainage problems are present, red maple, sweet gum, black gum or pin oaks were recommended as appropriate plantings.

A part of the root system of a red maple which had been growing one foot deep in a marshy spot was exhibited. The bottom of the root mass was shown, but the thick tangle of feeder roots toward the surface was not visible.

In order to maintain a reasonably moist soil, underplanting with a ground cover to catch and hold leaves, which would prevent surface evaporation, was suggested. Except for lawn areas, a light mulch of oak leaves can be maintained. Water will drain readily through the oak leaves which, if loose, will also permit air to pass through to the soil.

Complete, balanced fertilizers; a natural mulching material, such as leaf mold, and well-rotted manure were all recommended for tree feeding. An organic or partly organic fertilizer, high in nitrogen content, is desirable. One such fertilizer, 10-6-4, is usually applied with a soil auger at a rate of four pounds for each diameter inch of trunk at breast height.

Both the spring garden and tree care exhibits were well-received by the 25,000 visitors to the Long Island Agricultural and Technical Institute's 1953 program.

## PREMIER PEAT MOSS

The All-Organic Soil Conditioner

does

**MORE**  
for  
all soils!

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in gardening-  
mulching, etc.

All nurserymen  
need **PREMIER**  
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**MORE**  
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**P**REMIER — the organic soil conditioner — gives you more results — because its superior absorbency does more to produce good structure, germination and growth in all soils!

And Premier does more than soil conditioning! It provides organic material at the same time. Premier Peat Moss can be used all year — for mulching, seedbeds, liner beds and transplanting. And it can be sold all year — because it's the proven, popular organic material that every home gardener needs!

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HUMIDIFIER

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25", wt. 2 lbs.

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## SHADE TREE CONFERENCE

[Continued from page 11]

mum in usefulness. Trees may be roughly classified according to types of use they best serve, he said. There are the parking tree, used primarily for improving the street's appearance; the framing tree, for use mainly to improve the looks of a residence; the shade tree, planted particularly for protection against heat, and the ornamental tree, whose main purpose is beauty of form, leaf or flower.

### Select Trees According to Plan

Parking trees, Mr. Pesman stated, should be selected according to a definite plan of development of the subdivision or section of the city involved. In some cases such small trees as the hawthorn, crab apple and mountain ash might be desirable, while in others larger trees, such as oak, honey locust and linden, should be used. Row planting along streets is not always best; in some cases, it was pointed out, "A few individual, well-placed specimens may set off the character of well-designed homes or groups of homes." Mr. Pesman defined framing trees as trees so placed as to form a part border and thus create a more beautiful picture.

They must conform with the architecture and scale of the residence and generally should be near the corners of the home at an angle of 45 degrees from either wall. As in street use, small trees are gaining in favor as framing trees. Shade trees should provide shade in summer, yet let in a maximum of sun during the winter, Mr. Pesman said. The honey locust and Kentucky coffee tree were suggested as ideal for this purpose, with the sycamore, linden, catalpa, Norway maple, red oak, hackberry and black walnut recommended when heavier shade is desired. Trees suggested for planting because of flowers, fruit, foliage or form included the flowering crab apple, hawthorn, mountain ash, Japanese varnish tree, flowering plum, Schwedler maple, variegated box elder, Russian olive, pinyon pine, the upright juniper and groups of spruces rather than a single spruce tree. In planting ornamentals, Mr. Pesman said, "Most of us can take lessons from the way nature combines its plants, not at evenly set distances, not in straight rows, but in mixed plantings of all kinds of heights, textures and colors during the season. We aim for pleasant group plantings for a well-landscaped home rather than a crop of individual specimen trees. We should plant the right tree in the right spot. Each tree will then fulfill its func-



tion in making our grounds a most essential part of the home itself."

In his discussion of "How Rocky Mountain Horticulture Is Different," George W. Kelly explained that in this connection the Rocky Mountain region includes the Dakotas, western Kansas, Nebraska, Texas, Colorado, Utah, Nevada, Idaho, Wyoming, Montana and the eastern parts of Washington and Oregon. Characteristic of this vast area—and the reason why horticulture is different here—is the lack of adequate precipitation. This results in little natural subsoil moisture, low humidity, dry air and hot sunshine in the winter and an alkaline soil. Often the weather is erratic, with sudden changes in temperature, especially in the spring and fall.

Trees native to the area, Mr. Kelly said, include spruce, fir, juniper and similar evergreens, with few deciduous species. Consequently, many species which are desirable for landscape use and which are being planted in the area originated in other sections of the country where precipitation is greater and other conditions are generally more favorable for plant growth. For success when these species are planted, greater care is necessary, Mr. Kelly asserted. He advised careful soil preparation, watering as it is needed the year round, the addition of fertilizer to the soil, mulching, wrapping or shading the trunks of newly transplanted trees, careful pruning and the use of wound dressings and warned that insect control is particularly important, since there are few natural enemies of the common insect pests in the area.

"We do need badly," Mr. Kelly said, "more experimentation here with new varieties of trees to fill special conditions, to develop new and better trees to plant," and he expressed the hope that city, state and federal agencies would help support such work. Plantsmen, he said, in the Denver area are looking forward to the establishment of an arboretum in the city where they could obtain correct, authentic information on anything concerning ornamental horticulture or shade trees.

#### Women's Role in Horticulture

In her discussion of "The Family and Shade Trees," Mrs. Temperance O. Guptill, Sudbury, Mass., pointed out that a large percentage of women, because of the war, economic conditions and other factors, are presently taking an active part in the operation of business firms, industrial organizations and the financial



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**Balled and Burlapped Stock . . . Canned Trees and  
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● When sprayed on plant material, this colorless plastic latex partially seals plant surfaces, thereby retarding evaporation. It enables plants out of the ground to retain their moisture and fresh-dug appearance for long periods!

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management of their own homes. With these increasing interests, she said, also comes interest in the home grounds, community life and the training of children in responsibility toward our natural resources. She suggested that women's interest in trees could be increased in several ways: By the publication of more technical material written in popular terms with "a little more drama and appeal to sentiment"; by convincing women of the reliability of the organization that is seeking support, and by giving them a clear understanding, in writing if possible, of "what the job needs and the cost."

Mrs. Guptill cited several examples to illustrate the increasing interest women are taking in conservation. A group of women from the Far East representing a number of professions—medicine, agriculture, education and the arts—engaged in study at Boston, told her they were gathering ideas and data on reforestation and the planting of trees in towns and cities which they planned to put to use when they returned to their countries. A number of women in garden club work at Boston each spring and fall assist the Arnold Arboretum in its work.

**Urges Organizational Support**

She urged that the National Shade Tree Conference and other organizations interested in conservation activities, as well as the members individually, encourage and help develop interest in trees, shrubs and natural resources generally among children. "Arm the child," Mrs. Guptill asserted, "with a knowledge of trees and plants when he is interested, and you will have less juvenile delinquency." She praised the "Plant America" program, sponsored by the American Association of Nurserymen, and said that the Girl Scouts had chosen this slogan and program as the theme for their 40th anniversary year. "The slogan 'Plant America' has had widespread appeal to the imagination of all the people," she said, "and especially has the individual home benefited by the promotion of this slogan, the objective of which is 'to conserve the land to make it greener and more productive for abundant life, beauty and recreation.' It is a grass-root movement that attracts the interest of all civic organizations and through them the local officials and the press. It has helped to focus attention on the need for planting shade trees and the greater need of maintaining those we have."

George M. List, entomologist at Colorado A. and M. College, Fort



Collins, in discussing "Some Insect Pests of the Rocky Mountain Region," directed his remarks chiefly to arborists engaged in insect control work in the Rocky Mountain area. "Most of our ornamentals," he said, "are being grown out of their natural environment; a change from our mountains and foothills to our cities on the plains may be as radical as a change from a distant state." An entomologist, plant pathologist or horticulturist, upon coming into a semiarid region, he said, must learn not only the special problems in his own field, but must become familiar with the reactions of plant life to these changed conditions. Reactions to chemical sprays and dusts may be extremely different, he stated.

Pointing out that a great number of insects attack midwestern shade trees, Dr. List described the damage and suggested methods of control for those commonest in the area. A chart with Dr. List's recommendations is shown on page 11 in this issue.

In commenting on the apparent disappearance of the Dutch elm disease from the Denver area, where it was found several years ago, Dr. List said that a small, hymenopterous parasite had been discovered attacking the elm bark beetles, carriers of the disease. Examination of one beetle-infested tree revealed a parasitism ranging from 30 to 86.7 per cent, he said, and further studies are being made of this parasite-elm bark beetle relationship.

Using color slides to illustrate his remarks, E. F. Herrbach, horticulturist, Standard Oil Co., Chicago, presented an interesting paper on "Sap-sucking Insects of Ornamentals." Four principal groups of insects were considered—scale insects, aphids, spider mites and leaf hoppers. Mr. Herrbach likened the effect of these sucking insects to that of "an insidious creeping paralysis," for these insects are generally small and inconspicuous and their presence is not usually detected until considerable damage has been done.

#### Insect Control Formulations

Listing parasitic wasps, ladybird beetles, lace-winged insects and inclement weather as the principal natural enemies of scale insects, Mr. Herrbach said that dormant oil sprays varying in dosage from two and one-half to seven gallons to 100 gallons of water (conventional hydraulic sprayer) still constitute the standard accepted method of controlling these pests. For summer treatment of certain armored or hard-scale crawlers, including oyster

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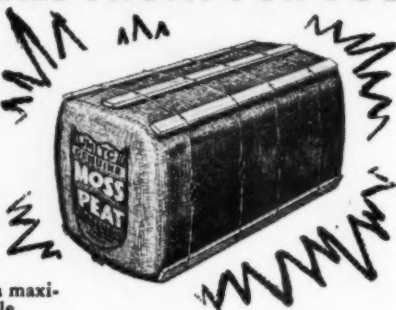


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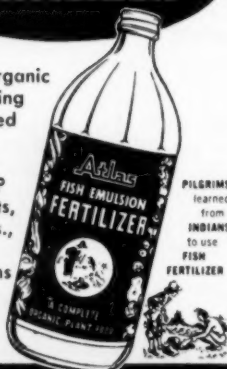
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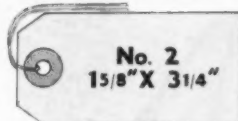
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shell, scurfy, San Jose, pine needle and euonymus, he recommended the following treatment: Two quarts of 25 per cent DDT white oil emulsion concentrate, or two quarts of 25 per cent DDT emulsion concentrate, or two pounds of 50 per cent wettable DDT, or one gallon (actual) summer oil, mixed in 100 gallons of water (hydraulic sprayer). In tests conducted last summer on scurfy scale crawlers, sprays of 25 per cent DDT concentrate, two quarts to 100 gallons of water, and 25 per cent DDT emulsion plus white oil gave kills ranging from 90 to 97 per cent. Mist blower applications of 1:3 dilutions of 25 per cent DDT emulsion concentrate and 25 per cent DDT—white oil emulsion concentrate—were effective against the crawlers of the cottony maple scale when uniform coverage was obtained. "Of special interest," Mr. Herrbach said, "in the mist blower plots was the complete lack of spray injury of any kind on the soft maples."

### Aphis Control

Recommendations for control of several species of aphis were given—they apply for 100 gallons of water—for use with a hydraulic sprayer: For pine bark aphis, 3 to 4 per cent dormant oil, or one pound 25 per cent Lindane wettable powder, when immature aphis are present in late spring; for viburnum aphis, two quarts Krenite, Elgetol, etc., in spring dormant; for aphis on elm, beech, willow, birch, maple, sycamore, etc., one pound of 25 per cent Lindane wettable, or one gallon of summer oil plus one-half pint nicotine sulphate plus three pounds of soap, or one-fourth to one-half pint of 20 per cent TEPP; for spruce gall aphis, three gallons of dormant oil, or one pint nicotine sulphate plus three pounds of soap in spring dormant. In all cases treatment is to be made in the spring before the leaves curl from the effects of the aphis attack. Spider mites, he said, can be controlled by spring applications of a 3 to 4 per cent dormant spray oil, and for summer applications the following controls, for 100 gallons, hydraulic sprayer, were suggested: One pint of Dimite, one and one-half pounds of Aramite wettable, one gallon of summer oil, two pounds of 50 per cent Ovotran, three-fourths pound of 25 per cent EPN wettable or one quart of 1 per cent rotenone. Leaf hoppers, Mr. Herrbach said, could be controlled by applying two pounds of 50 per cent wettable DDT or two quarts of 25 per cent DDT emulsifiable to 100 gallons of water in a hydraulic spraying, or, in mist



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In speaking of "Growing Evergreens in the Rocky Mountain Area," Robert E. More, attorney and skilled plantsman of Denver, Colo., recounted his experiences in attempting to grow evergreens at Glenmore, Buffalo Park, Colo. Stating that in this location winds sometimes reach a velocity of 50 miles an hour; temperatures occasionally drop to -40 or -50 degrees Fahrenheit, with, in at least one instance, a variation of 99 degrees within 48 hours, and annual precipitation averages only 11 inches, Mr. More said that it was largely through the trial-and-error method that he discovered some 150 varieties that are hardy. He then described a number of these species, using color slides to illustrate his remarks. He also presented all those in attendance with a beautifully prepared brochure containing a list of these species and a brief description of each.

Tracing the origin of the soil to many physical and chemical forces which have been at work on the rocks and minerals of the earth, Thomas L. Martin, dean of the school of applied science, Brigham Young University, Provo, Utah, in his paper, "Soil and the Microbe," said there are 4,000,000,000 microbes in every pound of soil, "vigorously working, tearing apart the organic matter, liberating plant foods and furnishing gases which create a favorable home for themselves." He enumerated various kinds of living organisms in the soil—soil molds which liberate ammonia, molds which produce several well-known antibiotics, algae which aid in the decomposition of rocks and minerals, bacteria which carry the decomposition of organic matter to completion and earthworms which through their activities help keep soil friable. "These various forms of soil life furnish suitable gas, moisture, air, temperature and plant foods, all of which are essential for plant growth. There

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is no substitute for microbial activity," Dr. Martin emphasized.

Circumstance prevented Carl E. Seliskar, plant pathologist of Colorado A. and M. College, from speaking as scheduled on "Shade Tree Diseases," and in his stead Paul E. Tilford, executive secretary of the National Arborist Association, Inc., Wooster, O., presented an interesting series of color slides on "The Four Seasons." In his lecture and slides Dr. Tilford traced the growth and development of plants during the spring, summer, autumn and winter seasons.

In the introduction to his paper, "Climatic Factors Affecting Tree Growth on the High Plains," A. C. Hildreth, superintendent of the Cheyenne experimental field station, Cheyenne, Wyo., said, "The high plains country is different from the east, midwest and far west. This does not mean that our region is better or worse. It is simply different. Its peculiarities of concern to arborists arise primarily from our climate." The climatic differences, he continued, "which more than any other single factor limit the kinds of trees that can be grown in a region and determine the practices necessary for growing them," involve low winter temperatures, short growing seasons, little precipitation, low atmospheric humidity the year round, intense sunlight both summer and winter and, largely because of climatic conditions, alkaline soils.

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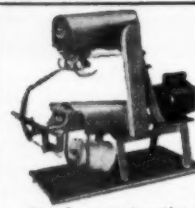
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olive and several species of juniper and pine, Dr. Hildreth said. The dry climate of the region, he continued, tends to discourage fungus disease attacks, but is favorable for spider mites, scales, aphids and certain other insects. The bright winter sunlight together with low night temperatures creates conditions suitable for sunscald, and many trees, not so affected in other sections of the country, suffer serious injury. Dr. Hildreth advocated wrapping the trunks of susceptible species during winter with a double thickness of ordinary window screen. To combat plant chlorosis induced by soil alkalinity he suggested applications of iron salts—iron citrate, iron phosphate or iron oxalate for trunk injections, or spraying a solution of iron salts on the foliage.

"Field Diagnosis of Tree Troubles" was the subject of a paper presented by J. C. Carter, plant pathologist, Illinois Natural History Survey, Urbana, Ill. Using a series of color slides in connection with his talk, Dr. Carter discussed the use of such tools as the increment borer, hand lens, pruning knife, binoculars and other similar equipment and emphasized that nobody "could stand with his hands in his pockets, look at an ailing tree, and tell what was wrong with it." He said that to make correct diagnoses every part of the tree should be thoroughly examined, including the leaves and branches, for evidence of insect or disease attack, and the roots and soil surrounding them, for evidence of injury from such sources as girdling roots, gas leaks, lack of aeration and similar conditions. Accurate diagnosis of some tree diseases could only be made by laboratory culture tests, Dr. Carter said and gave directions for taking branch samples and packaging for mailing. His slides included pictures of the external symptoms of a variety of tree and shrub diseases including oak wilt, Dutch elm disease, elm phloem necrosis, verticillium wilt and others common in the midwest.

#### Tree Care in the Modern City

The final topic on the program, "Standardizing Methods of Tree Care in a Modern City," was discussed by Carl Fenner, assistant city forester of Lansing, Mich. Although Mr. Fenner's remarks were directed primarily to city foresters, park superintendents and others interested in the maintenance of trees on public properties, this session was attended by many arborists, nurserymen and others engaged in commercial or

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semicommercial fields. Using slides throughout his discussion, Mr. Fenner presented a clear picture of the methods used in the planting and maintenance of street trees at Lansing. This work includes consultation service for residents and, on publicly owned trees, such arboricultural practices as pruning to improve tree health and for the safety of passers-by, pruning for overhead line clearance, cabling and bracing, wound treatment, treatment for gas injury, fertilizing, spraying to control insects and certain diseases, tree removal and planting. A list of tree species mentioned by Mr. Fenner as being favored for street planting at Lansing included black, sugar and Norway maples; hackberry, honey locust, sassafras, sweet gum, ginkgo, sycamore and hornbeam.

### NEW SOIL SAMPLER

A simplified tool for soil sampling is described in a bulletin, reprinted from the Quarterly Bulletin of the Michigan agricultural experiment station, Michigan State College, East Lansing, entitled "An Organic Soil Sampler with Telescoping Handle." The tool eliminates the need for carrying several sections of pipe with accessory equipment, like wrenches, etc., for coupling the sections together when samples are desired from different depths.

The major parts of the instrument are an inner telescopic section with a handle, an outer telescopic section which fits over the inner section, an outer and inner sampling cylinder with a slotlike opening along the side of each cylinder and an auger bit, which fits onto the end of the assembled instrument. A reinforcing collar serves to attach the sampling cylinders onto the telescoping sections.

When the mechanism is assembled the outer soil sampler fits around the inner part and is attached to the outer telescopic section, which, in turn, encloses the inner telescopic section. In operation, the instrument is plunged into the ground until the desired depth is reached, then the sampler is rotated in a counter-clockwise direction, causing pressure against the lip to rotate the inner cylinder so as to uncover the opening in the outer cylinder and fill the inner cylinder with soil. The sampler is then rotated in a clockwise direction, thus closing the cylinder opening and preventing contamination of the sample when withdrawing the sampler. The pamphlet is reprint No. 35-21, and is taken from the November, 1952, Quarterly Bulletin.



## LET THESE RAINDROP DISPLAYS START A FLOOD OF EARLY SALES IN YOUR STORE

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Remember—Vigoro has brought more dealers more profit for more years than any other plant food!

\*Vigoro is the trade-mark for Swift & Company's complete, balanced plant food.



## PENNSYLVANIA CONFERENCE

[Continued from page 9]

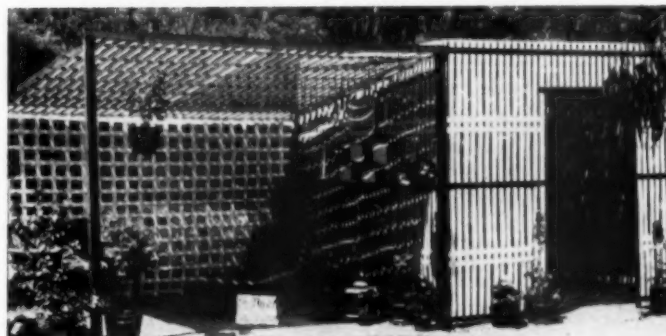
should be sharp to prevent bruising of the grass leaves, and the cutting bar should be set one and one-half inches high. Ordinarily, grass clippings are left unless the grass is too long, in which case they pile up and usually do not decompose before causing smothering beneath. A regular garden rake should not be used in removing clippings because it tears out the plants. Rather a broom or sweep rake should be used. Tree leaves must be removed or patches may be smothered during the winter.

When building new lawns, the top soil should be saved, if possible, to cover the area again. Cross or double seeding gives a more uniform spread of the seed and a more uniform stand. A little covering for the seed is desirable, but it must be light. After covering, roll with a light roller. Professor Cooper concluded by suggesting that those interested secure a new circular, No. 407, "Establishing the New Lawn," from the college mailing room.

The next speaker was J. O. Pepper, extension professor of entomology, whose topic was "What to Do about Insects on Ornamentals." He

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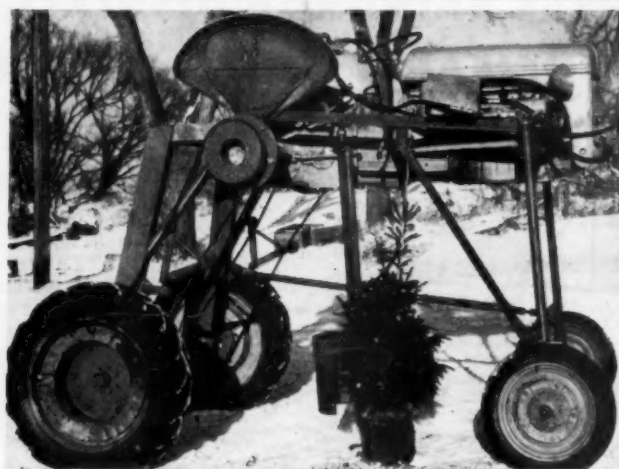
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mentioned a few pests he had found to be particularly troublesome in Pennsylvania during the past summer. One of the worst was lecanium scale on taxus. These scales are like half peanuts on the main branches and hatch in June or July with the nymphs feeding on the leaves. Severe infestations can kill plants. Control is accomplished by spraying with superior miscible oil applied in mid-February at the rate of two and one-half to three gallons of oil to 100 gallons of spray. An objection to using the oil on taxus is that it causes some yellowing or bleaching. Spraying with Parathion, one pound 15 per cent to 100 gallons, once or twice in the first half of July will also give results. Fairly good results also can be secured with DDT.

#### Golden Oak Scale Serious

Another pest, particularly serious this past summer, was golden oak scale. Winter application of superior miscible oil will give control. Some plants may be injured by oil, among these are sugar maple, Japanese maple, beech, hickory and butternut.

Spraying to control elm bark beetle has not been entirely satisfactory because it is almost impossible to secure complete coverage on large trees. This will not necessarily keep out Dutch elm disease. Borers on plants such as lilac or dogwood are often destructive. The best control is DDT at the rate of six pounds of 50 per cent wettable powder in 100 gallons of water and this is either painted or sprayed on the trunks and branches for two to three feet. For borers on lilac and mountain ash, the solution should be applied May 1 to 10 and one application may be sufficient. Two applications

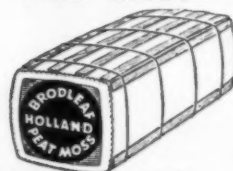
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DISPLAY GRASS MATS  
CUT GRASS

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Established 1909



should be given to dogwood, the first May 1 and the second May 20. Peaches and apples need two applications also; for peaches, July 10 and three or four weeks later; for apples, June 10 and July 1.

#### DDT for Leaf Miners

DDT is the best material for leaf miners, used at the rate of two pounds of 50 per cent wettable powder to 100 gallons of water. For arborvitae leaf miner, spraying should be done as the small white moths are emerging, which is usually June 15 to 20. Two applications should be made for both holly and boxwood miner, on about May 15 and May 30.

Materials for mite control include Dimite, Aramite and Ovotran. All three have longer residual effects than Parathion and are safer to use. Dimite is the most expensive of the three. Phosphate material such as Parathion is still good for mite control but there is some indication that mites develop resistance. Other phosphates which are effective and supposed to be somewhat safer to use are EPN-300, Metacide and Malathion. These are all dangerous, however, and directions for using them should be followed exactly.

For a combination insecticide, the most economical is two pounds of 50 per cent wettable DDT and two pounds of Aramite to 100 gallons of water. This has been working well except that it has not been giving as quick control of aphids.

Chlordane gives the best all around control of grubs in turf. It will control all types of grubs, while DDT will not control Japanese beetle grubs. Chlordane is also effective in controlling ants. A little dusted on the hole will clean them out.

Professor Pepper observed that this is the year for the emergence of brood 10 of the 17-year locusts in southeastern Pennsylvania. On small plants and on a limited scale the best control is to cover the entire plant with tobacco cloth. Where spraying is to be done, the material recommended was TEPP at the rate of six ounces of 40 per cent to 10 gallons of water. Probably several applications will be necessary at 3 to 5-day intervals, with the first application withheld until twig cutting is observed. Since the spray must contact the insect, it is best to apply early in the morning or late in the afternoon, when the air is usually still.

The final speaker for the afternoon session was W. W. Simonds, extension professor of forestry, who dis-

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**YORK  
"RE"  
RAKE**



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AND  
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It eliminates most hand raking by its ability to perform 3 Big Jobs: (1) It Grades and Levels, (2) It Rakes Stones, (3) It Mulches the Soil. **And it does all of these jobs at a substantial saving over hand labor costs.**

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## AMERICAN NURSERYMAN

cussed "Christmas Tree Growing by  
Nurserymen." He said the industry  
has been growing rapidly in Penn-  
sylvania during the past few years.  
There were some unsold trees dur-  
ing the past season, which means in  
all likelihood keener competition and  
the necessity of having top quality  
trees.

In discussing species, Professor Si-  
monds said that formerly red pine  
was considered the most satisfactory,  
but now it is felt it has too many  
disadvantages. Among these are that  
deep snow may tear off the bottom  
branches, thus taking more time to  
produce a salable tree. Scotch pine  
has increased in popularity recently  
to become the choice of buyers and  
growers. It is a fast-growing tree  
and responds to shearing, thus mak-  
ing a dense plant. There are many  
different strains of Scotch pine  
which may differ widely in growing  
habits so the grower must use care  
in selecting his source of seeds. The  
Riga strain has given good results  
and the mountain types seem to hold  
color well.

There are three types of Douglas  
fir. The first, from the coastal area  
of the west, has a good green color  
but does not thrive well in the east.  
The second is the Rocky mountain  
type, which has a bluish cast and  
probably is the best for Pennsyl-  
vania. The third comes from British  
Columbia and has a grayish cast.  
Douglas fir is a popular tree.

Austrian pine is a good tree and  
gaining in popularity. White pine  
is satisfactory if sheared regularly to  
form dense growth, but should not  
be tried in areas where white pine  
weevil is prevalent. Norway spruce  
is still good, although it takes some-  
what longer to grow than pines.  
White spruce is good for northern  
counties. Some growers have tried  
blue spruce but usually find people  
want them as live plants before they  
reach Christmas-tree size.

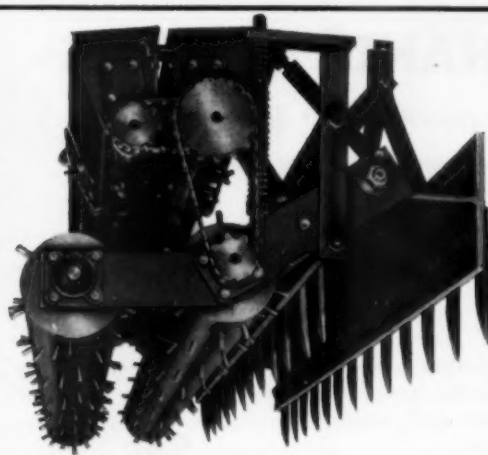
Plants for limited use, mainly be-  
cause not enough information is  
available, include Fraser fir, a south-  
ern plant doing well in higher eleva-  
tions but a slow grower, and Nikko  
fir, which is used mainly as an orna-  
mental but makes a beautiful tree,  
as does white fir.

Professor Simonds concluded his  
talk by showing a movie which illus-  
trated the steps of growing good trees  
from the setting out of the seedlings  
to harvest.

## College Men in Nurseries

One of the most interesting fea-  
tures of the conference was the dis-  
cussion on "What Should Nursery-  
men Expect of College Graduates?"





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#### SPECIFICATIONS

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Note the photograph of our B-53 streamlined model with two rollers and two seed boxes. Each box has an adjuster for distributing the proper amount of seed. This is the last word in lawn preparation and seeding. You are looking at the pulverizer from an underneath view. Note the two rows of spikes on the steel beam and the two leveling blades that do the rough work. These units are available without seeder, with one or two seeders.

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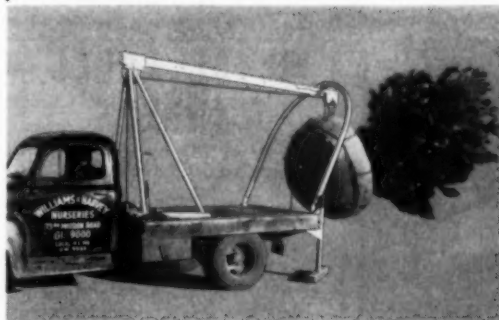
For Further Information Contact Us or Your Local Dealer

led by R. P. Meahl, professor of ornamental horticulture; H. G. Seyler, Farr Nursery Co., Weiser Park, and G. L. Sedwick, Eisler Nurseries, Butler. Professor Meahl, serving as chairman, outlined the courses required of students in horticulture. He said the college wants its graduates to receive more than the technical training in their specialty. Thus, they must take courses in English composition and public speaking, social studies, basic sciences, biological sciences as well as the horticultural courses of their specialty.

Mr. Seyler felt that one could take the student's academic training for granted and assume he had received the material needed. He said that, as a nurseryman, he would be interested in the individual's attitude toward the industry. Would he really want to work with plants? The college graduate should have lots of enthusiasm for his work. He should be resourceful and have initiative to carry on his job even when unexpected events turn up. It goes without saying that he should be of good character and completely honest.

Mr. Sedwick explained the conditions he had found after graduation upon becoming associated with one of the larger nurseries. He felt his

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Mover**

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### Soil Conditioners

Wednesday morning the sessions began with a talk by R. B. Alderfer, professor of agronomy, on soil conditioners. Nurserymen are interested in the value of soil conditioners but sometimes are at a loss properly to evaluate the many that are on the market, especially as manufacturers often make extravagant claims without facts to back them up. He said soil conditioners may never have direct value to nurserymen, but they do represent a real advance in doing a certain job by chemical means.

The physical condition or tilth of soils in terms of physical properties is governed by (1) the moisture condition or the capacity to absorb and also hold water, especially usable water, and the capacity for draining away the excess; (2) aeration, or the ability to exchange gases, particularly oxygen; (3) temperature, or the ability to heat or stay cool; (4) looseness, or the ability to be worked into a loose friable condition, and (5) resistance to crusting, that is, the natural looseness of the surface.

Size of particles is of great importance in the condition of soil. When the particles are large, there are too many large openings and too few small openings. In ordinary practice the method used to increase the number of small openings has been to add organic material. This



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GARDEN SPRAY  
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**NO WASTE**—Use only as much as you need. So much safer. No open containers which children and pets can get into.

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acts somewhat like clay in the soil. Soil conditioners, to date, have not proved effective in increasing the small openings or the water-holding power of coarse soils. About all they have done has been to help prevent crusting on the top surface.

#### Effective in Heavy Soils

Soil conditioners have been most effective in heavy soils by increasing the number of large openings. They act as a cementing agent to hold small particles together in granules. They do not have much effect on the other elements of the soil. These conditioners must be mixed with the soil to be effective.

There are, in general, two kinds of conditioners and both have the ability to form gum material to hold particles together. These conditioners are not so susceptible to bacterial action as natural gums developed by organic matter and should last longer. They cause an increase in the rate of water absorption, sometimes from .05 inch to two inches per hour.

Soil conditioners, however, will not make a well-drained soil out of a poorly drained one. The material will stay where placed. If the first six inches is the bottleneck, then one can secure benefits if the cost is not too great. Workability can be im-

proved, that is, the soil can be made looser.

In applying soil conditioners, the soil first must be finely pulverized and then the conditioners mixed in thoroughly. The soil will not improve its condition when the conditioner is added, but will maintain it.

There may be germination troubles, especially with small seeds, such as grasses which are not covered deeply, because the top surface is so loose it dries out too rapidly. Surface applications of the liquid form have shown promise in preventing erosion and also have been good to build resistance to compaction in lawn areas if the soil was in good condition when the conditioner was added.

There is a possibility that conditioners will be practical on nursery soil for seedbeds and transplant beds. The materials are not stable in acid soils, that is, when the pH is below five. High pH favors stability. One-half to one part of the conditioner to 1,000 parts of soil will generally bring about an improvement in the soil's physical properties. This would mean 20 to 40 pounds of active conditioner to 1,000 square feet of area for a depth of six inches. For a 2-inch depth, about 15 pounds should be used and for only a surface effect,

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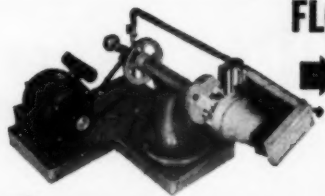
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four to five pounds. Most materials are not in a pure form, but may be 25 per cent pure, in which case the figures above would have to be multiplied by four.

In all cases one cannot forget organic matter, for conditioners will not act as a substitute for organic material. However, they are a handy means of improving the composition and undoubtedly will find a place in horticultural practices.

### General Tree Maintenance

"Tree Pruning and General Maintenance" was discussed by Frank H. Brushmiller, tree surgeon, Pittsburgh. He defined pruning as the cutting away of parts of branches, stems, buds or shoots and said it was done for the general purpose of improving cultivated plants. Shrubs and trees in parks and landscaped gardens are pruned so they will have a more attractive appearance. Under the care of skillful gardeners, evergreens can be made into some fanciful designs. Apple and pear trees have been made to grow like vines and have been known to cover walls as large as 30 feet wide and 40 feet high and to produce a large quantity of fruit. Transplanted plants should be pruned back to equalize the balance between the top and the root system, which has been disturbed by the operation. Usually nursery-grown plants have a compact root system and do not need much cutting back.

Tools must be kept sharp because dull tools leave jagged and torn edges. Mr. Brushmiller said he uses a curved, 24-inch Fanno saw for tree work and a curved, 15-inch Fanno saw for shrub pruning. The curved blade cuts mostly on the backward pull. For heavy pruning a forester 2-handled pruner is used. It will cut through 1½-inch limbs easily. Top pruning on shrubs is done with 2-edged hand shears. All cuts should be made as parallel to the trunk as

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possible, and all over one inch in diameter should be painted.

The procedure in tree pruning is for the man first to take his rope to the top of the tree and place it over a crotch. He then puts the sling, which he has previously tied, around his body at the hips and lower trunk, and ties the ends of the rope. His tools are sent up by the ground man and consist of a pole saw, hand saw, hand pruners and a paint can. He is now ready to start pruning, which is done from the top downward. He should keep his rope reasonably tight at all times so that if he accidentally falls, he can only swing toward the trunk.

Topping and tree removal make up a good share of the winter work. In topping, the work is done from the top downward, but in tree removal, the process is reversed and done upward. A chain saw is used for cutting up the fallen tree but never used in the tree. Trees should not be topped in the summer because the sun burns and blisters the exposed bark. This might happen with trees drastically pruned even when done in the winter. Therefore, on neglected trees, the pruning should be extended over a period of two or three years, taking a little out at a time.

#### Landscape Maintenance Schedule

Landscape maintenance may include anything done on the outside on any type of development. Mr. Brushmiller gave the schedule of activities which he follows. In March, late-flowering shrubs, such as the rose of Sharon, snowberry, Anthony Waterer spiraea, hydrangea and hybrid tea roses are pruned because these plants bloom on the current year's wood. Next, delayed dormant spraying is done with dormant oil. Almost everything is sprayed except the maple, beech, walnut, butternut, blue spruce and Viburnum carlesii. Oils cause injury to these plants. About the same time the soil is ready for the spring overhaul on lawns. Rolling, seeding and fertilizing is done, with only half of the fertilizer applied at this time and half reserved for about June 1. The planting of evergreens, shrubs and trees is also done during this time.

Hedge trimming and bed work is done whenever possible. About Memorial day, various annual flower beds are planted. Lawns need to be fertilized and, following this, the spraying is started again—this is known as the first cover spray and is applied about the time the elms and oaks have completed their heaviest growth. This also gives protection

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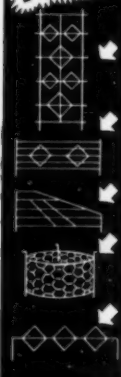
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against bagworms. Sometimes, a second spray is required. Roses are sprayed every week, starting about May 15 and continuing until October 15. After spring-flowering shrubs have started putting out the next year's growth they should be pruned by removing most of the old wood.

## Lawn Cutting

Lawn cutting is started about April 15, or when the lawns show they need it. The cutter bar is set at one inch until June 1, when it is raised to one and one-half inches and left for the remainder of the year. Only hand mowers are used because the men are seldom mechanics and would waste a lot of time in keeping the motors running. A 1-wheel trimmer saves much hand trimming and what it will not catch is clipped with hand sheep shears.

A 200-gallon sprayer, delivering 15 to 18 gallons per minute at 600 pounds pressure, is satisfactory except for extremely tall trees. Emergencies can be handled with a 50-gallon portable sprayer on wheels. For weed killing, a separate sprayer is used. It has a 15-gallon tank and develops just enough pressure to apply the material to the weeds with little mist. Spraying for weed killing is done early in the spring or else not until August. New lawns are put in during September.

Evergreens are checked early in May and are kept in bounds by pruning. Trees should be checked for weak crotches, split crotches, poor growth or general lack of vigor. In the fall, trees, shrubs and evergreens are planted, and after a freeze or two a mulch is applied. Mushroom manure was recommended. Salt hay works well, but may harbor mice. For the most successful maintenance business, close supervision is required.

## Choosing Herbaceous Perennials

The morning session concluded with a talk on "Choosing Herbaceous Perennials," by L. D. Little, Jr., instructor of ornamental horticulture. He observed that there are few nurseries in Pennsylvania growing and handling perennial stock. He said there is a good opportunity for carrying such plants in sales-grounds and that the plants should be in increasing demand. There are many spots where herbaceous plants can be used where shrubs would not be suitable. Some of these are in dry walls, rock gardens and natural scenes. They can also be used in front of shrubbery borders.

Perennials are usually easy to



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propagate; one does not need a greenhouse but can do well with frames. They are easier to dig than shrubs and reach a salable size earlier. Mr. Little urged that some Pennsylvania nurserymen start growing perennials.

#### Oak Wilt

The Wednesday afternoon session began with a discussion on "Oak Wilt—Its Spread and Possible Control," by C. L. Fergus, assistant professor of botany. He said the symptoms were wilted or drooping leaves, which then turn brown and finally drop off the oak trees altogether. This condition ordinarily begins at the top of the tree and works downward.

It is known that oak wilt can spread by root grafts from an infected tree to a healthy one; this accounts for a short distance spread in a restricted area. It does not, however, explain new outbreaks miles away from the infected area. Just how the fungus is spread is not known. Examinations of dying trees shows that the fungus develops mat-like areas under the bark and these swell, causing cracks in the bark. Some unknown agent apparently carries the fungus to new areas.

The disease was first discovered

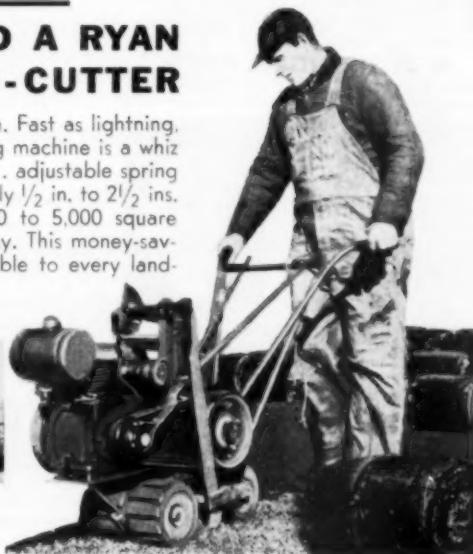
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in Wisconsin and was found in Pennsylvania in 1950. There is a likelihood it will spread to all areas where oak exists. It was found in 15 different spots in five counties in 1951. In 1952, a survey discovered 164 cases in 17 counties and it was felt that only about 25 per cent of the infected areas were found.

**Threat in Pennsylvania**

Oak wilt could be serious in Pennsylvania, where there is a large acreage of timber, about half of which is oak. This does not take into consideration the ornamental value of the oaks, which is, of course, great. Research at Pennsylvania State College indicates it may be possible to control the spread by making a complete survey, eradicating all infected trees and making checks again in each of the next two years. In the forests the eradication consists of felling dead and dying trees and destroying all infested timber. The bark is removed to prevent the formation of the mats; this will prevent long distance spread. For the immediate area, all trees in a wide circle are killed. These practices would be effective in ornamental plantings, and, in addition, there is the possibility of using chemotherapy, or the injection of some chemical into the tree, to prevent the infection. In trees of the white-oak group there is the possibility of control by pruning out infected spots, but this will not work on members of the black-oak group because the infection spreads too rapidly.

It is believed that the disease is spreading slowly and that there is no need to be hysterical. There is still time, but this time must be used to advantage. However, there is more research being done with oak wilt than with any other tree disease.

**Office Practices**

Office practices in the nursery business was the subject discussed by Thomas M. Yerkes, Conard-Pyle Co., West Grove. He said the office is the heart of the business, with nursery stock orders the life blood. In other words, the office keeps things going. There must be some organization in the office. The beginner probably does everything, but if the business grows a bookkeeper is added, and the larger the business grows the more necessary it is to departmentalize the office.

The office will deal with records of customers and orders. It is important to know who the customers are. Other records should tell the amount of stock on hand and how the sales

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compare with like periods of previous years. Records that are not necessary or essential to the business should not be created and checks should be made often to see that non-essential records are discarded. Forms for records can be developed to serve the particular needs of the business. However, two forms should never be used if one will suffice.

The office is important in maintaining good customer relations. Care must be taken not to offend customers by letter or by telephone; one must always be courteous and diplomatic. It is wise to check on the people handling telephone orders as to their voice, tone and manner.

It is important to keep all workers satisfied as to salary and they should be paid what they are worth to business. When there are openings in the organization, one's own people should be advanced if they are qualified.

#### Home Ground Improvement

The final afternoon speaker was A. O. Rasmussen, extension professor of ornamental horticulture, whose subject was "Home Grounds Improvement, an Aid to Nursery Sales." He explained the method of securing help from the extension service. When groups or individuals want help on home improvements they make their requests to the county agent. He arranges for the extension specialist to meet with them and to make suggestions for developing their grounds. Planting lists are prepared and membership lists of the Pennsylvania Nurserymen's Association or the Western Pennsylvania Nurserymen's Association are furnished. The groups are advised to purchase the material from reputable nurserymen. He said the function of the extension service is to help people help themselves. Professor Rasmussen showed a series of slides to illustrate the conducting of home grounds improvement demonstrations.

At the informal banquet, the group was honored by having Milton S. Eisenhower, president of Pennsylvania State College, and Mrs. Eisenhower as guests. Alvin R. Grové, associate professor of botany, addressed the group on "This Land of Ours." He showed Kodachrome slides of various areas of the United States.

#### Plants for Foreground Planting

The final session, Thursday morning, opened with R. P. Meahl speaking on plants for foreground planting. He pointed out that the list of good, low-growing material is small. Broad-leaved evergreens are espe-



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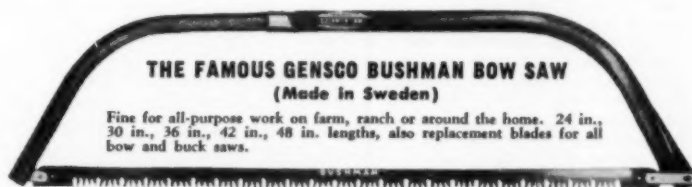
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cially desirable, if they are hardy, because of their attractive winter appearance and their more informal habit of growth. In most areas of Pennsylvania, however, many of these broad-leaved evergreens need some protection from the drying winds of winter. Otherwise, they will probably have many twigs and branches browned and dead by spring. This is the result of drying rather than of injury from low temperatures.

Professor Meahl furnished a list of recommended plants for foreground plantings but especially stressed the good qualities of *Abelia grandiflora*, glossy *Abelia*, which is attractive from late June until frost with its glossy foliage and continuous flower production. It continues to grow until frost and thus has unhardened wood which will freeze back some. It will be necessary to prune it back some each spring, but it soon hides the pruning scars with new growth; actually, this dieback and pruning guarantees a plant which will not grow out of bounds.

**Additional Desirable Plants**

*Berberis julianae*, wintergreen barberry, has bright yellow flowers, showy foliage and attractive fruit. In exposed spots the tips will die back, because of drying, but away from the wind it makes an unusually fine subject. *Euonymus alatus compactus* is excellent for specimen planting, but does not mass together well. Each plant has the character to stand out as an individual and, of course, has excellent foliage and fall color and interesting twig arrangement.

The small hollies, such as convex-leaf (*Ilex crenata convexa*), Green Island and Stokes, are all valuable for low plantings and all are doing well on the Pennsylvania State College campus. *Pieris japonica*, Japanese pieris, is outstanding for foliage, flowers and year-around beauty.

Harold G. Seyler was the concluding speaker, discussing "Lilacs as a Profit Crop." Mr. Seyler's talk will be featured in a later issue of the American Nurseryman, together with other interesting material on the lilacs.

**LAKE'S SHENANDOAH NURSERIES**, Shenandoah, Ia., recently announced that Jim Deems has joined the firm as their western representative. His father, Harley Deems, was the first salesman the nursery employed. Mr. Deems, with his wife and three daughters, will be living at Longmont, Colo.

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